JG CRUZE

JG Cruze Owner’s Handbook

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Note Please refer to the inside front cover of the Service/warranty booklet for the Vehicle Identification Certificate.

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Contents

Introduction 2
In brief 4
Keys, doors and windows 16
Seats, restraints 25
Storage 41
Instruments and controls 46
Lighting 63
Infotainment system 69
Climate control 87
Driving and operating 93
Vehicle care 115
Service and maintenance 149
Technical data 152
Customer information 158
Index 160

Introduction

We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to the current Cruze model. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not fitted to your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Manual provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

Using this manual

- The "In brief" section will give you an initial overview.
- The table of contents at the beginning of this manual and within each chapter shows where the information is located.
- The index will enable you to search for specific information.
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- Depending on the model variant, integrated special equipment and accessories, the scope of equipment of your vehicle can differ from the descriptions in this Owner's Manual.
- iPod® is a registered trademark of Apple Inc.
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Danger, Warnings and Cautions

⚠Danger

Text marked ⚠**Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

⚠Warning

Text marked ⚠**Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury.

Caution

Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage.

Symbols

Page references are indicated with ⇨. ⇨ means "see page".

In brief

Initial drive information

Vehicle unlocking

Remote control

Press button to unlock the doors and boot compartment. Open the doors by pulling the handles, to open the boot compartment, press the button under the boot lid moulding.

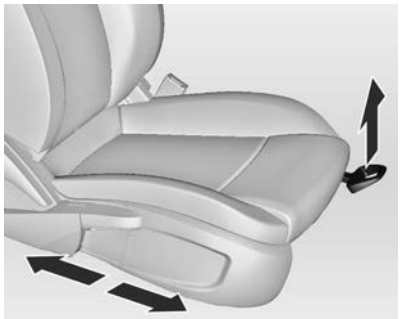
Press button, only the boot lid is unlocked and opens.

Remote control ⇨ 16, Central locking system ⇨ 17, Boot ⇨ 20.

Seat adjustment

⚠ Warning
Only drive with the seat correctly adjusted.

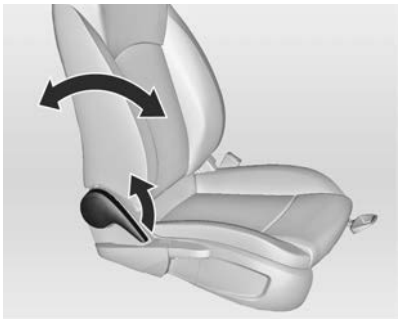
Seat positioning



Pull handle, slide seat, release handle.

Seat adjustment ⇨ 27, Seat position ⇨ 26.

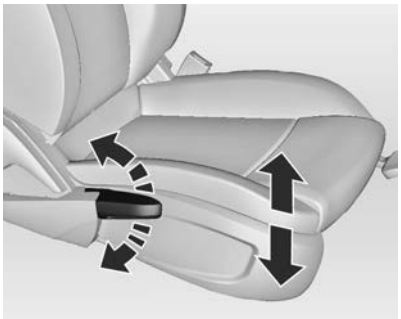
Seat backrests



Pull lever, adjust inclination and release lever. Allow the seat to engage audibly. Do not lean on backrest when adjusting.

Seat adjustment ⇨ 27, Seat position ⇨ 26.

Seat height

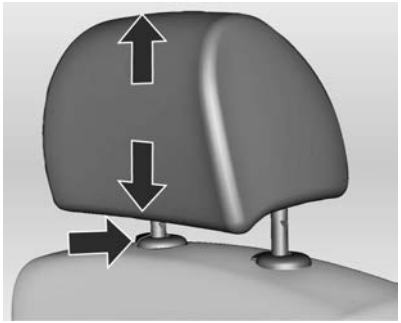


Lever pumping motion

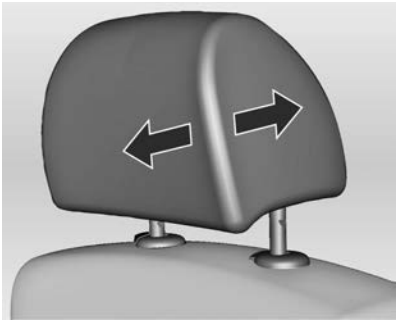
up = higher
down = lower

Seats ⇨ 27, Seat position ⇨ 26.

Head restraint adjustment



For height adjustment, pull the head restraint upward. To move down press the catch and push the head restraint downwards.



For horizontal adjustment, pull the head restraint forward, it engages in 3 positions. To bring into rear position automatically, pull head restraint close forward.

Head restraints ⇨ 25.

Seat belt

Pull out the seat belt and engage in belt buckle. The seat belt must not be twisted and must fit close against the body. The backrest must not be tilted back too far (maximum approx. 25 °).

To release belt, press red button on belt buckle.

Seat belts ⇨ 29, Airbag system ⇨ 33, Seat position ⇨ 26.

Mirror adjustment

Interior mirror

Adjust the lever on the underside to reduce glare.

Interior mirror ⇨ 22.

Exterior mirrors

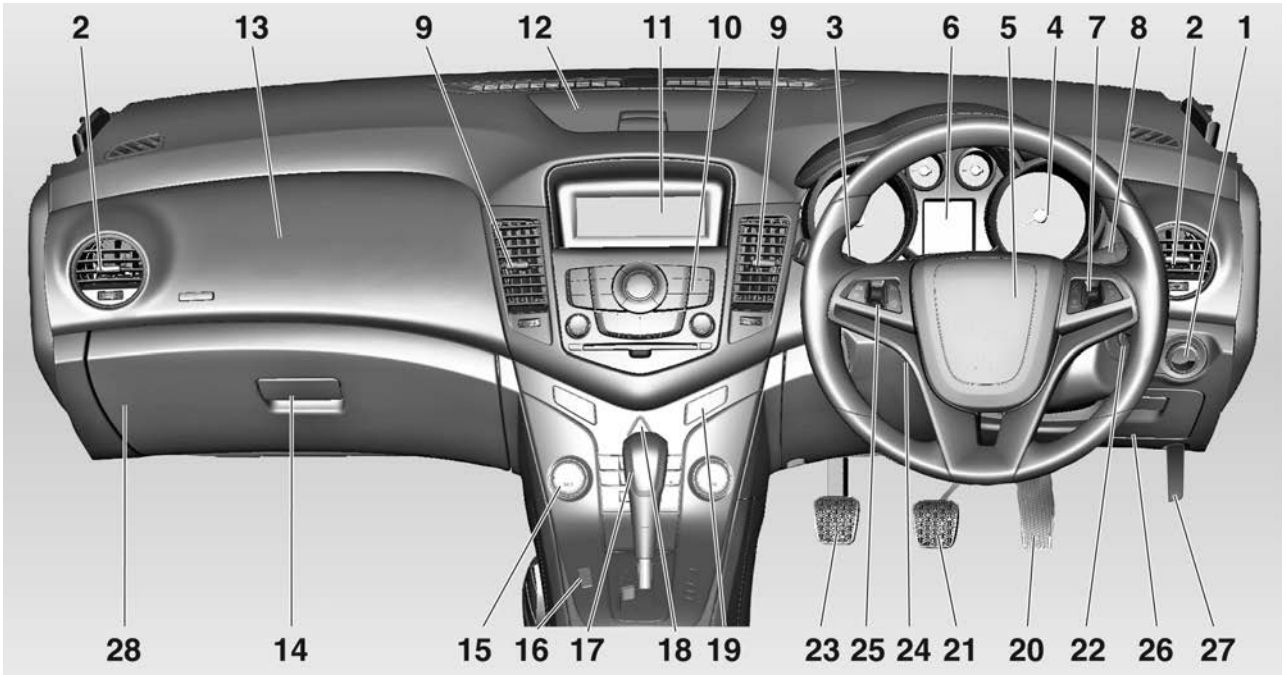
Select the relevant exterior mirror and adjust.

Electric adjustment ⇨ 21, Convex exterior mirrors ⇨ 21, Folding exterior mirrors ⇨ 22, Heated exterior mirrors ⇨ 22.

Steering wheel adjustment

Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked. Do not adjust steering wheel unless vehicle is stationary and steering wheel lock has been released.

Airbag system ⇨ 33, Ignition positions ⇨ 94.


2
13
9
12
11
10
9
3
6
5
4
7
8
2
1
28
14
15
16
17
18
19
23
25
24
21
20
22
26
27

Instrument panel overview

1 Light switch 63
Front fog lights 65
Instrument illumination 66

2 Side air vents 90

3 Windscreen wipers, windscreen washer system ... 47

4 Speedometer 49

5 Horn 47
Driver's airbag 33

6 Driver Information Centre 57

7 Steering wheel control for infotainment system 46

8 Turn signals, headlight flash, low beam and high beam 65
Exit lighting 67
Driver Information Centre 57

9 Centre air vents 90

10 Infotainment system 158

11 Info-Display 57

12 Storage 41

13 Front passenger airbag 33

14 Glovebox 42

15 Climate control system 87

16 Traction control system 102
Electronic Stability Control . 102

17 Selector lever, automatic transmission 97
Manual transmission 100

18 Hazard warning flashers 65

19 Central locking system 17

20 Accelerator pedal 93

21 Brake pedal 100

22 Ignition switch with steering wheel lock 94

23 Clutch pedal 93

24 Steering wheel adjustment 46

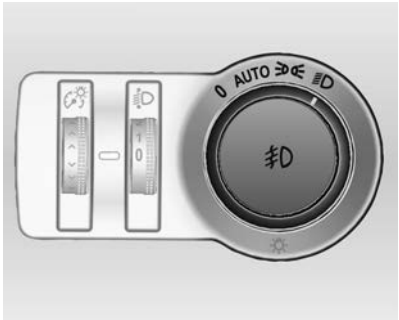
25 Cruise Control 103

26 Storage compartment 41

27 Bonnet release lever 116

28 Internal fuse compartment . . 132

Exterior lighting



Turn

Auto = Automatic light control: Headlights are switched on and off automatically depending on external light conditions.

0 = activation or deactivation of the automatic light control, switch turns back to **AUTO**

= parking lights

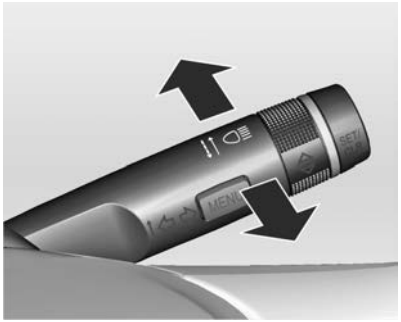
= headlights and parking lights

Press

= front fog lights (If fitted)

Lighting ⇨ 63.

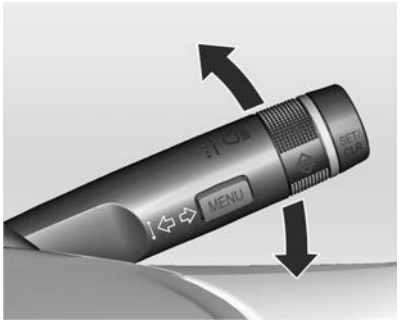
Headlight flash, high beam and low beam



headlight flash	=	pull lever
high beam	=	push lever
low beam	=	pull lever from high beam position

High beam ⇨ 64, Headlight flash ⇨ 64, Automatic light control ⇨ 63.

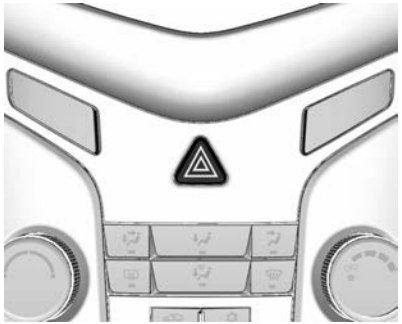
Turn and lane-change signals



left	=	lever up
right	=	lever down

Turn and lane change signals ⇨ 65.

Hazard warning flashers



Operated with the ⚠ button.

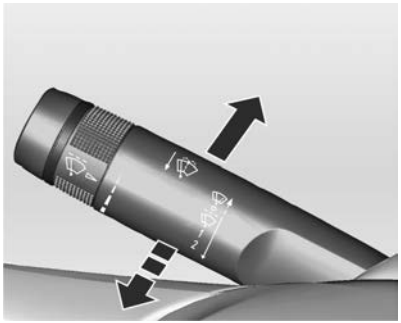
Hazard warning flashers ⇨ 65.

Horn

Press .

Washer and wiper systems

Windscreen wipers



2 = fast
1 = slow
= timed interval wiping
O = off

For a single swipe when the windscreen wipers are off, press the lever up.

Windscreen wipers ⇨ 47, Wiper replacement ⇨ 123.

Windscreen washer system

Pull lever.

Windscreen washer system ⇨ 47, Washer fluid ⇨ 122.

Climate control

Heated rear window, heated exterior mirrors

Heating is operated by pressing the button.

Heated rear window ⇨ 24.

Demisting and defrosting the windows

Press button .

Set temperature control to warmest level.

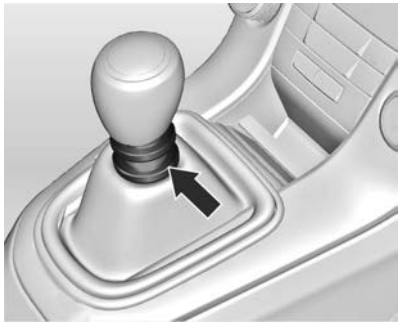
Cooling on.

Heated rear window on.

Climate control system ⇨ 87.

Transmission

Manual transmission



Reverse on vehicles with petrol engine: with the vehicle stationary, depress the clutch pedal and then pull up the ring on the selector lever and engage the gear.

Reverse on vehicles with diesel engine: with the vehicle stationary, depress the clutch pedal and select reverse gear as indicated on the gear lever.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Manual transmission ⇨ 100.

Automatic transmission

P = park
R = reverse
N = neutral
D = drive

Manual mode: move selector lever from **D** to the left.

+ = higher gear
− = lower gear

The selector lever can only be moved out of **P** when the ignition is on and the brake pedal is applied. To engage **P** or **R**, push the release button.

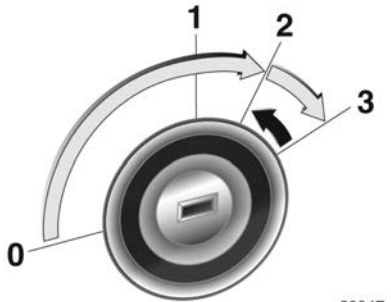
Automatic transmission ⇨ 97.

Starting off

Check before starting off

- Tyre pressure and condition ⇨ 134.
- Engine oil level and fluid levels ⇨ 120.
- All windows, mirrors, exterior lighting and number plates are free from dirt, snow and ice and operational.
- Proper position of seats, seat belts and mirrors ⇨ 26, ⇨ 31, ⇨ 21.
- Check brake function at low speed, particularly if the brakes are wet.

Starting the engine



- Turn key to position 1.
- Move the steering wheel slightly to release the steering wheel lock.
- Manual transmission: operate clutch;
- Automatic transmission: operate brake and move selector lever in **P** or **N**;
- Do not accelerate;
- Diesel engine: turn the key to position **2** for preheating until control indicator ⟟ goes out;
- Turn key to position **3** and release when engine is running.

Before restarting or to switch off the engine, turn key back to **0**.

Parking

- Always apply parking brake without pressing release button. Apply as firmly as possible on a downhill slope or uphill slope. Operate foot brake at same time to reduce operating force.
- Switch off the engine and ignition. Turn the ignition key to 0, remove and turn the steering wheel until the steering wheel lock is felt to engage.

  For vehicles with automatic transmission, move selector lever to **P** position and remove key.
- If the vehicle is on a level surface or uphill slope, engage first gear (for vehicles fitted with manual transmission) or set the selector lever to **P** (for vehicles fitted with automatic transmission) before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the selector lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Close windows.
- Lock the vehicle with button on the remote control.
- Do not park the vehicle on an easy flammable surface. The high temperature of the exhaust system could ignite the surface.
- The engine cooling fans may run after the engine has been switched off ⇨ 116.
- Diesel engines: after running at high engine speeds or with high engine loads, operate the engine briefly at a low load or run for about 1 to 2 minutes at idle speed before switching off in order to protect the turbocharger.

Keys, locks ⇨ 16.

Keys, doors and windows

Keys, locks 16
Doors 20
Vehicle security 21
Exterior mirrors 21
Interior mirrors 22
Windows 23

Keys, locks

Keys

Replacement keys

The key number is specified on a detachable tag.

Locks ⇨ 147.

Key with foldaway key section

Press button to extend. To fold the key, first press the button.

Radio remote control

Used to operate:

- Central locking system
- Load compartment

The remote control has a range of approx. 25 metres. This range can be affected by outside influences.

The hazard warning flashers confirm operation.

Handle with care, protect it from moisture and high temperatures and avoid unnecessary operation.

Fault

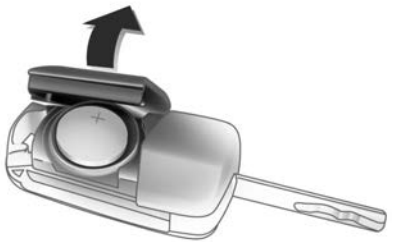
If the central locking system cannot be operated with the radio remote control, it may be due to the following:

- Range exceeded,
- Battery voltage too low,
- Frequent, repeated operation of the remote control while not in range, which will require resynchronisation,
- Overloading the central locking by operating at frequent intervals, the power supply is interrupted for a short time,
- Interference from higher-power radio waves from other sources.

Opening the vehicle ⇨ 17.

Remote control battery replacement

Replace the battery as soon as the range reduces, or as per the service schedule.



Extend the key and open the unit. Replace the battery (battery type CR 20 32), paying attention to the installation position. Close the unit and synchronise.

Remote control synchronisation

After replacing the battery, unlock the door with the key in the lock. The remote control will be synchronised when you switch on the ignition.

Central locking system

Unlocks and locks doors, boot and fuel filler flap.

A pull on an interior door handle unlocks the entire vehicle and opens the door.

Note
In the event of an accident of a certain severity, the vehicle unlocks automatically.

Unlocking

Remote control

Press button ⍰.

It is configurable to unlock only the driver's door by pressing button once and to unlock all doors, boot and fuel filler flap by pressing button twice.

Settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 60.

Locking

Remote control

Close doors, boot and fuel filler flap.

Press button .

If the driver's door is not closed properly, the central locking system will not work on driver's door. Activation or deactivation of the remote control is listed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 60.

Unlocking the boot lid

Press button when the ignition is off. The boot lid will unlock and open, whilst all other doors remain locked.

Central locking buttons

Locks or unlocks all doors, boot and fuel filler flap.

Press the button to lock.

Press the button to unlock.

When the key is in the ignition lock, it is only possible to lock the driver's door if all doors are closed.

Fault in remote control system

Unlocking

Manually unlock the driver's door by turning the key in the lock. Switch on the ignition and press the central locking button to unlock all doors, boot and fuel filler flap. To deactivate the anti-theft locking system, switch on the ignition.

Locking

Switch on the ignition and press the central locking button to lock the doors, boot and fuel filler flap. Then close the driver's door and lock it from the outside with the key.

Fault in central locking system

Unlocking

Manually unlock the driver's door by turning the key in the door barrel. The other doors can be opened by using the interior handle twice. The fuel filler flap cannot be opened.

Locking

Push inside locking knob of all doors except driver's door. Then close the driver's door and lock it from the outside with the key. The fuel filler flap and boot lid cannot be locked.

Automatic Door Locks

Automatic locking after driving off

This security feature can be configured to automatically lock all doors, boot and fuel filler flap as soon as the vehicle starts to drive.

Settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 60.

Child locks

⚠Warning

Use the child locks whenever children are occupying the rear seats.

Using a key or suitable screwdriver, turn the child locks in the rear doors into horizontal position. Doors cannot be opened from inside. For deactivation turn the child locks into vertical position.

Doors

Boot

Opening

Push the button under the boot lid moulding or press button on the remote control until boot lid is opened.

⚠Warning

Do not drive with the boot lid open or ajar, e.g. when transporting bulky objects, since toxic exhaust gases could enter the vehicle.

Caution

Before opening the boot lid check overhead obstructions, such as a garage door, to avoid damage of the boot lid. Always check the moving area above and behind the boot lid.

Note

The installation of certain heavy accessories onto the boot lid may affect its ability to remain open.

Closing

Do not press the button under the moulding while closing as this will unlock it again.

Vehicle security

Immobiliser

The system is integrated into the ignition switch and checks whether the vehicle is allowed to start with the key being used. If the transponder in the key is recognised, the vehicle can be started.

The electronic immobiliser activates itself automatically after the key has been removed from the ignition switch.

If the control indicator flashes or illuminates when the ignition is on, there is a fault in the system; the engine cannot be started. Switch off the ignition and then repeat the start attempt.

If the control indicator continues flashing, attempt to start the engine using the spare key and seek the assistance of your Holden Dealer.

Note
The immobiliser does not lock the doors. You should always lock the vehicle after leaving it.

Control indicator ▷ 56.

Exterior mirrors

Convex Mirrors

The convex exterior mirror reduces blind spots. The shape of the mirror makes objects appear smaller, which will affect the ability to estimate distances.

Power Mirrors

Select the relevant exterior mirror by turning the control to left **(L)** or right **(R)**. In position **0** no mirror is selected.

Then swivel the control to adjust the mirror.

Folding Mirrors

For pedestrian safety, the exterior mirrors will swing out of their normal mounting position if they are struck with sufficient force. Reposition the mirror by applying slight pressure to the mirror housing.

Heated Mirrors

Operated by pressing the button.

Heating works with the engine running and is switched off automatically after a short time.

Interior mirrors

Manual Rearview Mirror

To reduce glare, pull the lever on the underside of the mirror housing.

Windows

Power windows

⚠Warning

Take care when operating the power windows. Risk of injury, particularly to children.

If there are children on the rear seat, switch on the child safety system for the power windows.

Keep a close watch on the windows when closing them. Ensure that nothing becomes trapped in them as they move.

Power windows can be operated

- with ignition on,
- within 10 minutes after switching ignition off.

After switching off the ignition, window operation is disabled when a front door is opened.

Operate the switch for the respective window by pushing to open or pulling to close.

Operation of driver's window

Pushing or pulling lightly to the first detent: window moves down or up as long as switch is operated.

Pushing or pulling further to the second detent and then releasing: window moves down or up automatically with safety function. To stop movement, operate the switch once more in the same direction.

Operation of passenger's window and rear windows

Pushing or pulling lightly to the first detent: window moves down or up as long as switch is operated.

Pushing further to the second detent and then releasing: window moves down automatically. To stop movement, operate the switch once more in the same direction.

Safety function on driver's window

If the window glass encounters resistance above the middle of the window during automatic closing, it is immediately stopped and opened again.

Safety function all doors

In the event of closing difficulties due to frost or the like, hold the switch pulled. The window moves up without safety function. To stop movement, release and operate the switch once more in the same direction.

Child safety system for rear windows

Press switch to deactivate rear door power windows, the LED lights up. To activate press again.

Overload

If the windows are repeatedly operated within short intervals, the window operation is disabled for some time.

Initialising the power windows

If the windows cannot be closed automatically (e.g. after disconnecting the vehicle battery), a warning message or a warning code is displayed in the Driver Information Centre.

Vehicle messages ⇨ 58.

Activate the window electronics as follows:

1. Close doors.
2. Switch on ignition.
3. Close the window completely and keep the switch pulled for additional 2 seconds.
4. Repeat for each window.

Heated rear window

Operated by pressing the button.

Heating works with the engine running and is switched off automatically after a short time.

Sun visors

The sun visors can be folded down or swivelled to the side to prevent glare

If the sun visors have integral mirrors, the mirror covers should be closed when driving.

Seats, restraints

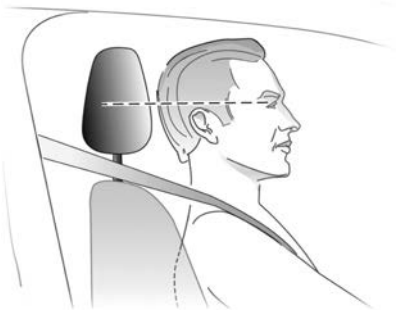
Head restraints 25
Front seats 26
Rear seats 29
Seat belts 29
Airbag system 33
Child restraints 36

Head restraints

Position

⚠Warning

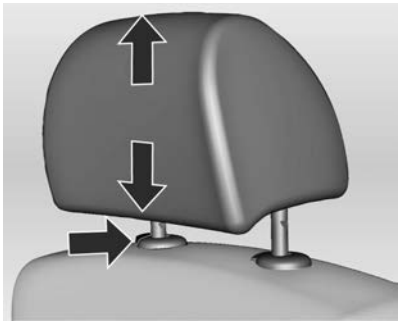
Only drive with the head restraint set to the proper position.



The middle of the head restraint should be at eye level. If this is not possible for extremely tall persons, set to highest position, and set to lowest position for small people.

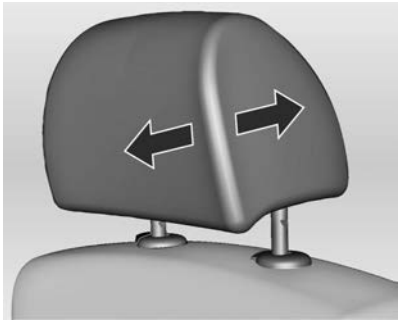
Head restraints on front seats

Height adjustment



Pull the head restraint upward.

To move down press the catch and push the head restraint downwards.

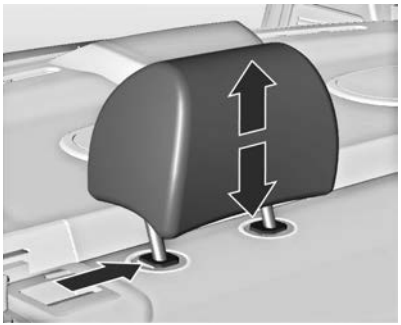


Horizontal adjustment
Pull the head restraint forward, it engages in 3 positions.

To bring into rear position automatically, pull head restraint close forward.

Head restraints on rear seats

Height adjustment



Pull the head restraint upward.

To move down press the catch and push the head restraint downwards.

Front seats

Seat position

⚠Warning

Only drive with the seat correctly adjusted.

- Sit with your buttocks as far back against the backrest as possible. Adjust the distance between the seat and the pedals so that your legs are slightly angled when

applying the pedals. Slide the passenger seat as far back as possible.

- Sit with your shoulders as far back against the backrest as possible. Set the backrest rake so that you can easily reach the steering wheel with your arms slightly bent. Maintain contact between your shoulders and the backrest when turning the steering wheel. Do not angle the backrest too far back. We recommend a maximum rake of approx. 25 °.
- Adjust the steering wheel ⇨ 46.
- Set seat height high enough to have a clear field of vision on all sides and of all display instruments. There should be at least one hand of clearance between your head and the headlining. Your thighs should rest lightly on the seat without pressing into it.
- Adjust the head restraint ⇨ 25.
- Adjust the height of the seat belt ⇨ 31.

Seat adjustment

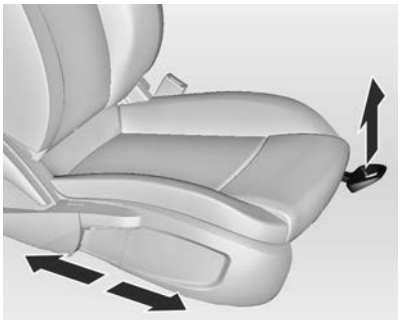
⚠ Danger

Do not sit nearer than 25 cm from the steering wheel, to permit safe airbag deployment.

⚠ Warning

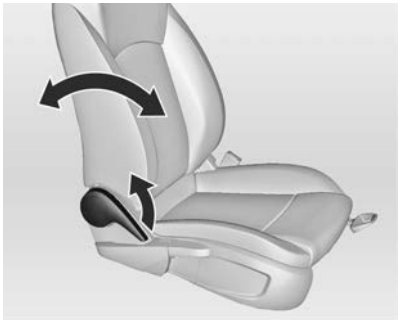
Never adjust seats while driving as they could move uncontrollably.

Seat positioning



Pull handle, slide seat, release handle.

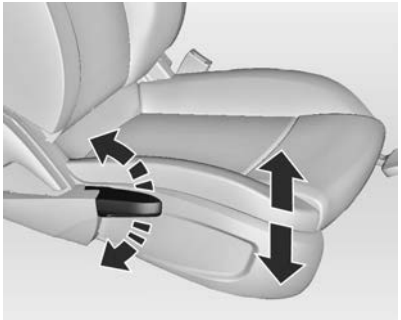
Seat backrests



Pull lever, adjust inclination and release lever. Allow the seat to engage audibly.

Do not lean on seat when adjusting.

Seat height

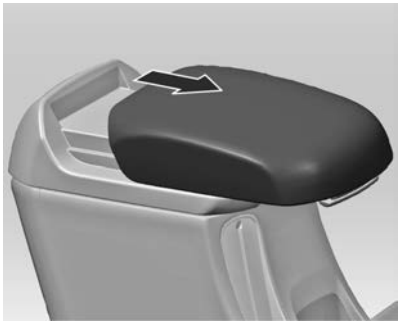


Lever pumping motion

up = higher
down = lower

Armrest

Armrest between front seats



Push button and fold armrest upward. The open armrest contains a stowage compartment.

Horizontal adjustment

Push button to slide the armrest.

Heated Front Seats

(If fitted)

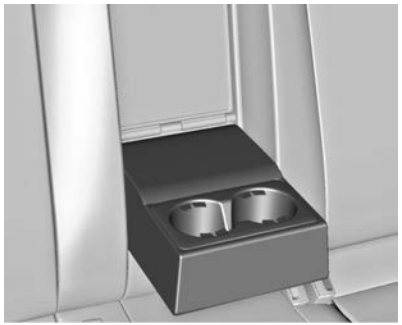
Activate front seat heating (while the engine is running) by pressing the button in the control knob for temperature (left seat) or fan speed (right seat) one or more times with the ignition on. The number of LEDs in the button indicates the setting.

Prolonged use of the highest level for people with sensitive skin is not recommended.

Seat heating is operational when the engine is running.

Rear seats

Armrest



Fold armrest down by pulling the strap. The folded armrest contains a drink holder.

Seat belts

Seat belt reminder for driver's seat and front passenger seat, seat belt control indicator ⇨ 53.

The belts are locked during heavy acceleration or deceleration of the vehicle for the safety of the occupants.

⚠ Danger

Fasten seat belt before each trip.

In the event of an accident, people not wearing seat belts endanger their fellow occupants and themselves.

⚠Warning

Seatbelts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seatbelts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seatbelt adjusting devices from operating to remove slack, or prevent the seatbelt assembly from being adjusted to remove slack.

Periodically check all parts of the belt system for damage and proper functionality.

Have damaged components replaced. After an accident, have the belts and triggered belt tensioners replaced by your Holden Dealer.

Note

Make sure that the belts are not damaged by shoes or sharp-edged objects or trapped. Prevent dirt from getting into the belt retractors.

Belt force limiters

In the front seats, stress on the body is reduced by dampened release of the belt during a collision.

Belt tensioners

In the event of a head-on or rear-end collision of a certain severity, the front seat belts are tightened.

⚠Warning

Incorrect handling (e.g. removal or fitting of belts or belt buckles) can trigger the belt tensioners with risk of injury.

Deployment of the belt tensioners is indicated by illumination of control indicator ⛐ ⇨ 53.

Triggered belt tensioners must be replaced by your Holden Dealer. Belt tensioners can only be triggered once.

Note

Do not affix or install accessories or other objects that may interfere with the operation of the belt tensioners. Do not make any modifications to belt tensioner components as this will invalidate the vehicle type approval.

Three-point seat belt

Fitting

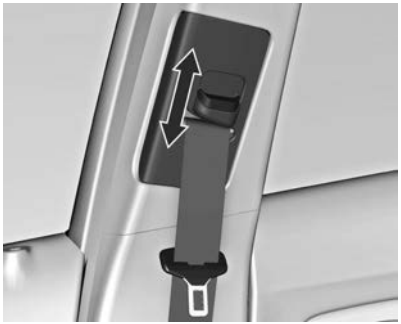
Withdraw belt from reel, guide it untwisted across the body and engage the latch plate in the buckle. Tension the lap belt regularly whilst driving by tugging the shoulder belt.

Loose or bulky clothing prevents the belt from fitting snugly. Do not place objects such as handbags or mobile phones between the belt and your body.

⚠Warning

The belt must not rest against hard or fragile objects in the pockets of your clothing.

Height adjustment

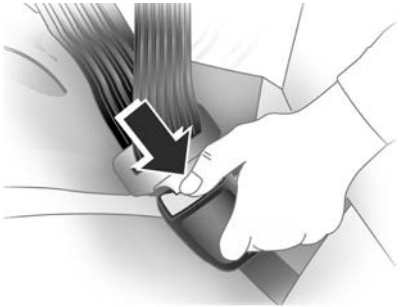


1. Pull belt out slightly.
2. Press button.
3. Adjust height and engage.

Adjust the height so that the belt lies across the shoulder. It must not lie across the throat or upper arm.

Do not adjust while driving.

Removing



To release belt, press red button on belt buckle.

Seat belts on the rear seats

The three point seat belt for the rear centre seat can only be withdrawn from the retractor if the backrest is in the rear position.

Pregnant women

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear a seatbelt. A pregnant woman should wear a three point seat belt with the lap portion of the belt worn as low as possible below the rounding of their stomach, throughout the pregnancy.

Airbag system

The airbag system consists of a number of individual systems.

When triggered the airbags inflate within milliseconds. They also deflate so quickly that it is often unnoticeable during the collision.

⚠Warning

If handled improperly the airbag systems can be triggered in an explosive manner.

Note

The airbag systems and belt tensioner control electronics are located in the centre console area. Do not put any magnetic objects in this area.

Do not stick anything on the airbag covers and do not cover them with other materials.

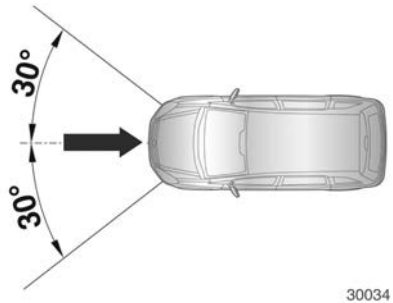
Each airbag is triggered only once. Have deployed airbags replaced by a Holden Dealer.

In the event of airbag deployment have the steering wheel, the instrument panel, all panelling parts, the door seals, the handles and the seats replaced by your Holden Dealer.

Control indicator for airbag systems ⇨ 53.

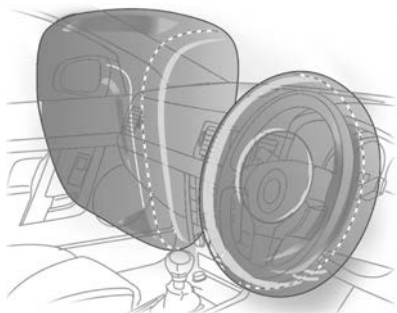
Front airbag system

The front airbag system consists of one airbag in the steering wheel and one in the instrument panel on the passenger side. These can be identified by the word **AIRBAG**.



30034

The front airbag system is triggered in the event of an accident of a certain severity in the depicted area. The ignition must be on.



In the event of an accident (e.g. front end collision) the forward movement of the front seat occupants is retarded, thereby considerably reducing the risk of injury to the upper body and head.

⚠Warning

Optimum protection is only provided when the seat is in the proper position ⇨ 26.

Keep the area in which the airbag inflates clear of obstructions.

Wear the seat belt properly fastened. Only then the airbag is able to protect.

⚠WARNING ADVARSEL VAROITUS ΠΡΟΕΙΔΠΟΙΗΣΗ RABHADH TWISSUA VARNING
GB DO NOT place rear-facing child seat on this seat unless the airbag is off. DEATH OR SERIOUS INJURY can occur.
DK En bagudvendt barnestol må IKKE anbringes på dette sæde, medmindre airbaggen er frakoblet. I givet fald risikerer man, at der sker ALVORLIGE PERSONSKADER, I VÆRSTE F ALD MED DØDELIG UDGANG.
FIN ÄLÄ aseta taaksepäin suunnattua lastenistuinta tur vatyynyllä varustetulle istuimelle, jos turvatyynyä ei ole kytketty pois käytöstä. Seurauksena voi olla KUOLEMA TAI VAKAVA HENKIL ÖVAHINKO.
GR ΜΗΝ τοποθετήτε παιδικό κάθισμα με φορά προς το πίσω σε αυτό το κάθισμα όταν δεν έχει τεθεί αερόσακο. εκτός εάν ο αερόσακος είναι απενεργοποιημένος. Μπορεί να προκληθεί ΣΟΒΑΡΟΣ ΤΡΑΥΜΑΤΙΣΜΟΣ ή ΘΑΝΑΤΟΣ.
IRL NÁ CUIR an suíochán páiste a mbíonn os comhair an cúil ar an suíochán seo mura bhfuil an mála aeir múchta. D'fhéadfadh BÁS nó GORTÚ TROM a tharlú.
M TPOΘΟΊΧ ic-child seat ii jħares lura fuq dan is-sedil bl-airbag, hlief jekk l-airbag ikun off. IL-MEWT JEW KORRIMENT SERJU jistgħu jseħħu.
S PLACERA INTE en bakåtvänd barnstol i detta säte om inte airbagen är avstängd. DÖDSFALL ELLER SVÅRA PERSONSKADOR kan inträffa.

Refer to the airbag warning label on the passenger's sunvisor.

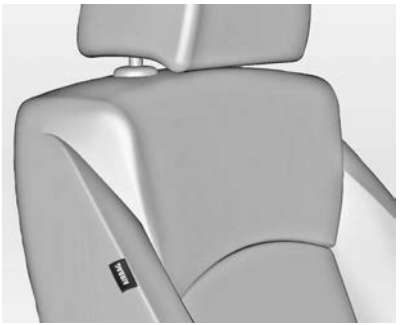
⚠Warning

WARNING – EXTREME HAZARD

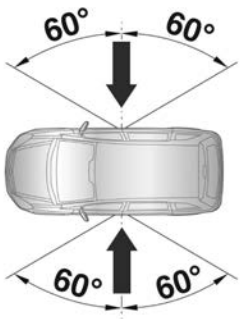
Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

Side airbag system



The side airbag system consists of an airbag in each front seat backrest. This can be identified by the word **AIRBAG**.



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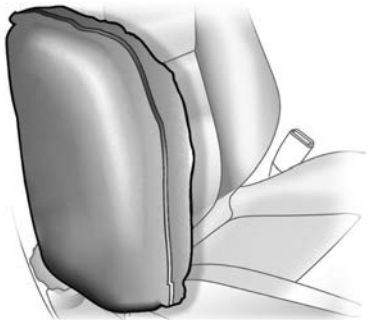
The side airbag system is triggered in the event of an accident of a certain severity in the depicted area. The ignition must be on.



The risk of injury to the upper body and pelvis in the event of a side-on collision is considerably reduced.

⚠Warning

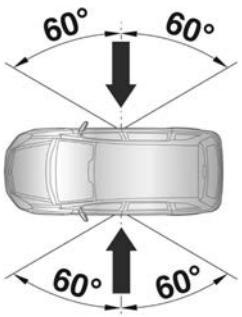
Keep the area in which the airbag inflates clear of obstructions.

Note

Only use protective seat covers that have been approved for your vehicle. Be careful not to cover the airbags.

Curtain airbag system

The curtain airbag system consists of an airbag in the roof frame on each side. This can be identified by the word **AIRBAG** on the roof pillars.



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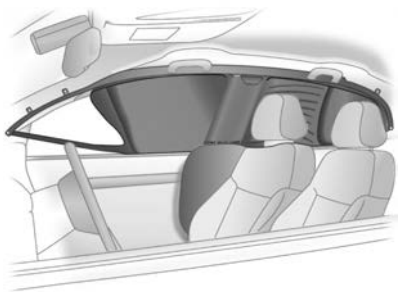
The curtain airbag system is triggered in the event of an accident of a certain severity in the depicted area. The ignition must be on.



The risk of injury to the head in the event of a side impact is considerably reduced.

⚠Warning

Keep the area in which the airbag inflates clear of obstructions.

The hooks on the handles in the roof frame are only suitable for hanging up light articles of clothing, without coat hangers. Do not keep any items in these clothes.

Child restraints

Child restraint systems

When a child restraint system is being used, pay attention to the following usage and installation instructions and also those supplied with the child restraint system.

⚠ WARNING ADVARSEL VAROITUS ΠΡΟΕΙΔΠΟΙΗΣΗ RABHADH TWISSIJA VARNING
GB DO NOT place rear-facing child seat on this seat unless the airbag is off. DEATH OR SERIOUS INJURY can occur.
DK En bagudvendt barnestol må IKKE anbringes på dette sæde, medmindre airbaggen er frakoblet. I givet fald risikerer man, at der sker ALVORLIGE PERSONSKADER, I VÆRSTE F ALD MED DØDELIG UDGANG.
FIN ÄLÄ aseta taaksepäin suunnattua lasteniistuinta tur vatyynyllä varustetulle istuimelle, jos turvatyynyä ei ole kytkетty pois käytöstä. Seurauksena voi olla KUOLEMA TAI VAKAVA HENKIL ÖVAHINKO.
GR ΜΗΝ τοποθετείτε παιδικό κάθισμα με φορά προς το πίσω σε αυτό το κάθισμα όταν διοδέτει αερόσακο, εκτός εάν ο αερόσακος είναι απενεργοποιημένος. Μπορεί να προκληθεί ΣΟΒΑΡΟΣ ΤΡΑΥΜΑΤΙΣΜΟΣ ή ΘΑΝΑΤΟΣ.
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M TPOΦΟΣΙΧ iċ-child seat li jħares lura fuq dan is-sedil bl-airbag, hlief jekk l-airbag tkun off. IL-MEWT JEW KORRIMENT SERJU jistgħu jseħħu.
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Refer to the airbag warning label on the passenger's sunvisor.

⚠Warning

WARNING – EXTREME HAZARD

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

⚠Warning

This manual provides you with general information concerning child restraints only. The driver is required by law to ensure that passengers are suitably restrained.

In most States and Territories of Australia and New Zealand, specific laws may exist which require children to be seated in approved child restraints. Holden strongly recommends that you refer to your specific State or Territory regulations to determine which child restraint is suitable for your child.

Children should be restrained at all times when travelling in a vehicle.

Always ensure that the seat belt fits firmly around the child restraint.

If a child cannot see out of the window, do not raise him/her by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

⚠Warning

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.

Only child restraints that have clips to attach to the vehicle's anchorage fitting are to be used. Earlier types of child restraints may not attach securely to this type of anchor.

Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

Always follow the child restraint manufacturer's fitting instructions when installing a child restraint into the vehicle.

Selecting the right system

Your child should travel facing backwards in the vehicle, until as old as possible. It is appropriate to change the system when the child's head can no longer be properly supported at eye height. The child's cervical vertebrae are still very weak and in an accident they suffer less stress in the semi-prone rearward position than when sitting upright.

Never carry a child whilst travelling in the vehicle. The child will become too heavy to hold in the event of a collision.

When transporting children, use the child restraint systems suitable for the child's weight.

Ensure that the child restraint system to be installed is compatible with the vehicle type.

Ensure that the mounting location of the child restraint system within the vehicle is correct.

Only allow children to enter and exit the vehicle at the side facing away from the traffic.

When the child restraint system is not in use, secure the seat with a seat belt or remove it from the vehicle.

Note

Do not stick anything on the child restraint systems and do not cover them with any other materials.

A child restraint system which has been subjected to stress in an accident must be replaced.

Please ensure that infants and children are seated in the rear seats using child restraints.

Until the children can use seat belts, please select a child restraint suitable for its age and make sure the child wears it. Please see the instructions on the relevant products for child restraints.

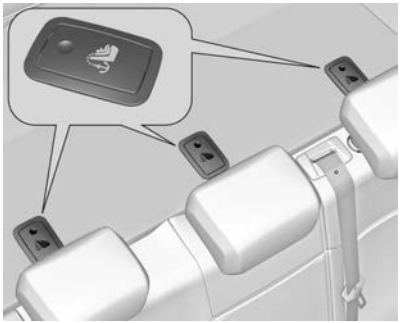
Child restraint installation locations

Permissible options for fitting a child restraint system

Weight and age class	On front passenger seat	On rear outboard seats	On rear centre seat
Group 0: up to 10 kg or approx. 10 months	X	U	U
Group 0+: up to 13 kg or approx. 2 years	X	U	U
Group I: 9 to 18 kg or approx. 8 months to 4 years	X	U	U
Group II: 15 to 25 kg or approx. 3 to 7 years	X	U	U
Group III: 22 to 36 kg or approx. 6 to 12 years	X	U	U

U = Universal suitability in conjunction with three-point seat belt.
X = No child restraint system permitted in this weight class.

Top-tether child restraint systems



Fasten Top-tether child restraint systems to the fastening eyes on the places behind the rear head restraints. The strap must run between the two guide rods of the head restraint.

When using Top-tether for seat mounting, universally approved child restraint systems for Top-Tether may be used.

Top-tether mounting loops are indicated by labels on the load compartment cover.

Storage

Storage compartments 41
Load compartment 43
Roof rack system 44
Loading information 44

Storage compartments

Instrument panel storage

Storage on top of the instrument panel

Pull the grip to fold up the cover.

Storage below the light switch

Pull the grip to open the box.

Glovebox

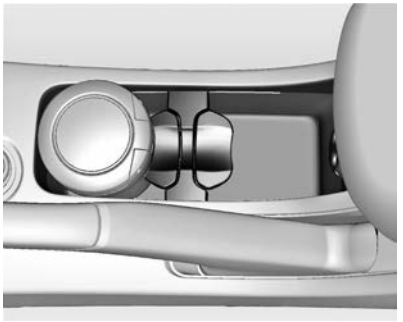
To open pull the grip.

The glovebox is lockable with the vehicle key.

⚠Warning

To reduce the risk of injury in an accident or a sudden stop, always keep the glovebox door closed while driving.

Cupholders

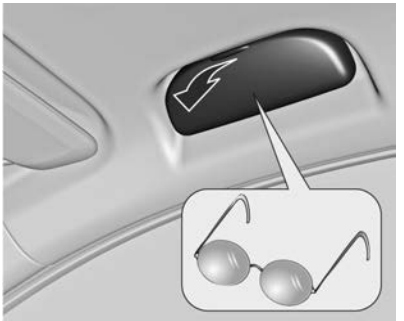


Cupholders are located in the centre console.

Additional cupholders are located in the rear armrest, when it is folded down.

Sunglasses storage

(If fitted)



Fold down to open.

Do not use for storing heavy objects.

Armrest storage

Storage in the front armrest

Push lever to slide and fold up the armrest.

Load compartment

Folding down rear seat backrests

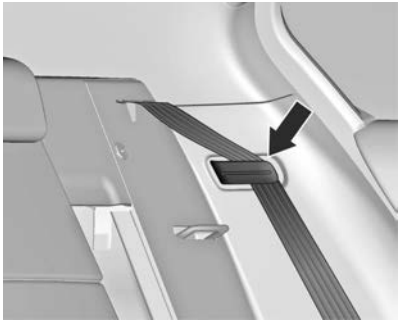
The rear backrest is divided into two parts. Both parts can be folded down.

Push head restraints down by pressing the catch.

Fold up rear armrest.

Pull release lever on one or both sides and fold down the backrests on the seat cushion.

The seat belts must be pulled out and positioned away from the back rest.



Fold up backrests into upright position.

Latch seat backrests into position by pushing at the upper part of the backrest until they engage audibly.

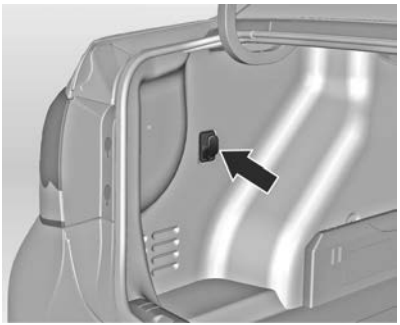
Pull seat backrests forward again to make sure they are correctly engaged.

The backrests are only engaged when the red marks on both sides near the release lever are not visible.

Insert all safety belts into the slots, if seat belts are not coiled up automatically.

Never fold seat backrest when the rear centre seat belt is buckled or extracted.

Bag Hanger



On the left side in the boot is a retainer for hanging light carrier bags.

Roof rack system

Roof rack

For safety reasons and to avoid damage to the roof, the vehicle approved roof rack system is recommended.

Follow the installation instructions and remove the roof rack when not in use.

⚠Warning

For safety reasons, and to avoid damaging the roof, use only the roof rack approved by Holden for your vehicle. The maximum allowable roof load is 45 kg (including the weight of the roof racks). Roof rack loads alter the handling of a vehicle due to a change in the centre of gravity.

Avoid abrupt swerving or sharp steering when carrying loads on the roof rack.

Loading information

- Heavy objects in the boot should be placed against the seat backrests. Ensure the backrests are securely engaged. If objects can be stacked, the heavier objects should be placed at the bottom.
- Secure objects in load compartment to prevent sliding.
- When transporting objects in the load compartment, the backrests of the rear seats must not be angled forward.

- Do not allow the load to protrude above the upper edge of the backrests.
- Do not place any objects on the boot lid cover or the instrument panel, do not cover the sensor on top of the instrument panel.
- The load must not obstruct the operation of the pedals, parking brake and gear selector, or hinder the freedom of movement of the driver. Do not place any unsecured objects in the interior.
- Do not drive with an open boot lid.
- Optional equipment and accessories increase the kerb weight.
- Driving with a roof load increases the sensitivity of the vehicle to cross-winds and has a detrimental effect on vehicle handling due to the vehicle's higher centre of gravity. Distribute the load evenly and secure it properly with retaining straps. Adjust the tyre pressure and vehicle speed according to the load conditions. Check and retighten the straps frequently.

Instruments and controls

Controls 46
Warning lights, gauges and indicators 49
Information displays 57
Vehicle messages 58
Trip computer 59
Vehicle personalisation 60

Controls

Steering wheel adjustment

Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked.

Do not adjust steering wheel unless vehicle is stationary.

Steering wheel controls

The Infotainment system can be operated by the controls on the steering wheel.

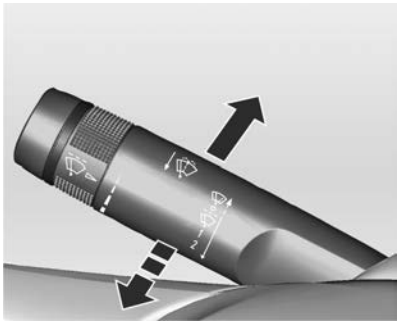
Further information regarding this can be found in the Infotainment section.

Horn

Press .

Windscreen wiper/washer

Windscreen wiper



2 = fast
1 = slow
= timed interval wiping
O = off

For a single swipe when the windscreen wipers are off, press the lever up.

Do not use if the windscreen is frozen.

Switch off in car washes.

Adjustable wiper interval

Wiper lever in position .

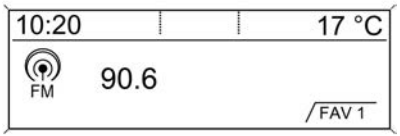
Turn the adjuster wheel to adjust the desired wipe interval:

short interval = turn adjuster wheel downwards
long interval = turn adjuster wheel upwards

Windscreen washer

Pull lever. Washer fluid is sprayed onto the windscreen and the wiper swipes for a few strokes.

Outside temperature



A drop in temperature is indicated immediately and a rise in temperature after a time delay.

If outside temperature drops to 3 °C, the symbol illuminates in the Info-Display as a warning for icy road conditions. remains illuminated until temperatures reach at least 5 °C.

⚠Warning

The road surface may already be icy even though the display indicates a few degrees above 3 °C.

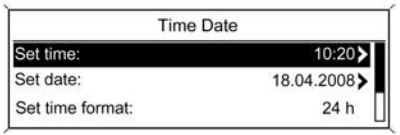
Clock

Date and time are shown in the Info-Display.

Set date and time

Press the **CONFIG** button. The **Settings** menu is displayed.

Select **Time Date**.



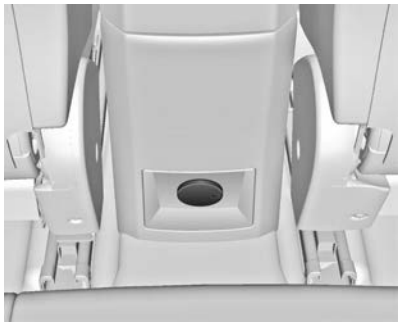
Selectable setting options:

- **Set time**: changes the time shown on the display.
- **Set date**: changes the date shown on the display.
- **Set time format**: changes the time display format.
- **Set date format**: changes the date display format.

Make the desired settings.

Power outlets

(If fitted)



12V power outlets are located in the front and rear floor console.

Do not exceed the maximum power consumption of 120 watts.

With ignition off the power outlets are deactivated. Additionally the power outlets are deactivated in case of low battery voltage.

Do not connect any current-delivering accessories, e.g. electrical charging devices or batteries.

Do not damage the sockets by using unsuitable plugs.

Warning lights, gauges and indicators

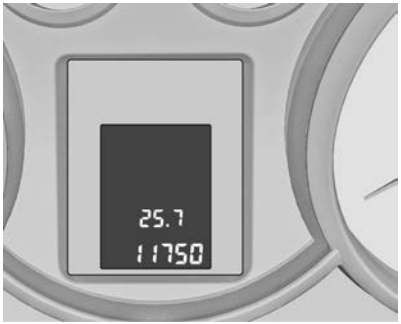
Speedometer

Indicates vehicle speed.

Note

When driving in the speed limited zones, such as child-safety zones, please keep the speed limits.

Odometer



The bottom line displays the recorded distance.

Trip odometer

The top line displays the recorded distance since the last reset (max. value 1999.9).

To reset, press the **SET/CLR** button on the turn signal lever.

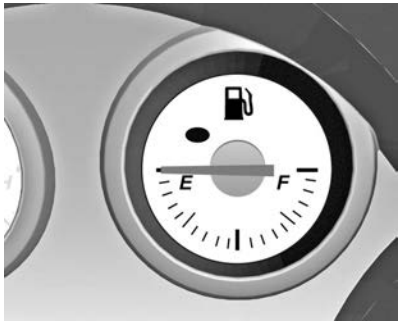
Tachometer

Displays the engine revolutions per minute.

Drive in a low engine speed range for each gear as much as possible.

Caution
If the needle is in the red warning zone, the maximum permitted engine speed is exceeded. Engine is at risk.

Fuel gauge



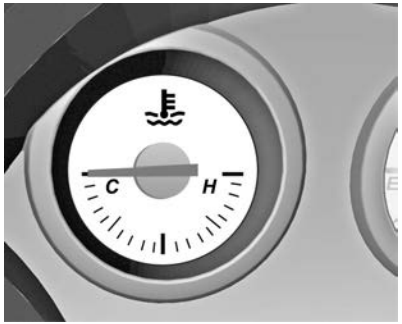
Displays the fuel level in the tank.

Control indicator ⬬ illuminates if the level in the tank is low. Refuel immediately.

Never run the tank dry.

Because of the fuel remaining in the tank, the top-up quantity may be less than the specified tank capacity.

Engine Temperature gauge



Displays the coolant temperature.

left area	=	engine operating temperature not yet reached
central area	=	normal operating temperature
right area	=	temperature too high

Caution
Do not continue driving with the temperature gauge needle in the right area. The engine is too hot. Continued operation of an overheated engine will result in severe engine damage.

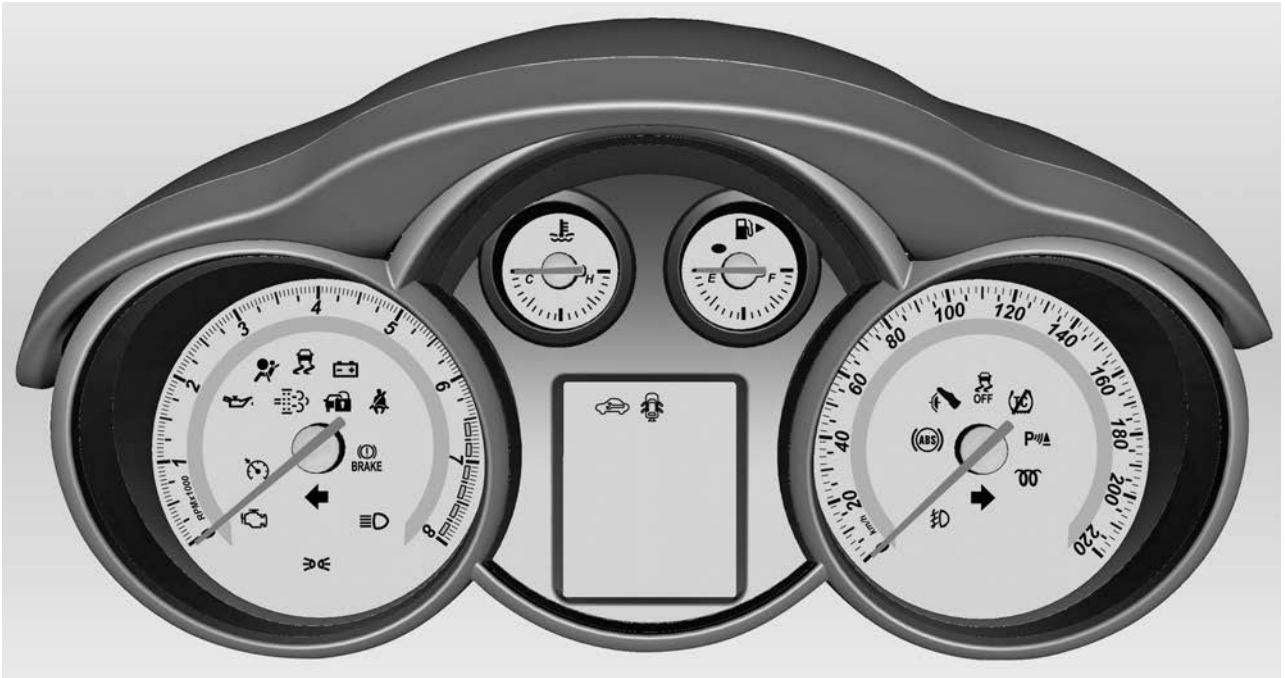
Control indicators

The control indicators described are not present in all vehicles. The description applies to all instrument versions. When the ignition is switched on, most control indicators will illuminate briefly as a functionality test.

The control indicator colours mean:

red	=	danger, important reminder
yellow	=	warning, information, fault
green	=	confirmation of activation
blue	=	confirmation of activation
white	=	confirmation of activation

Control indicators in the instrument



Turn signal

⇦⇨ illuminates or flashes green.

Flashes

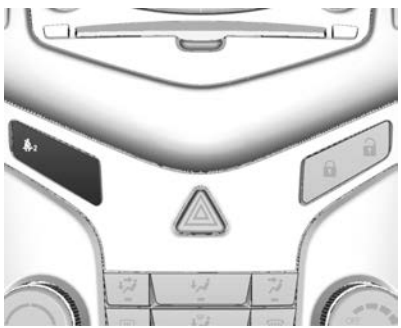
The control indicator flashes if a turn signal or the hazard warning flashers are activated.

Fast flashing: failure of a turn signal light or associated fuse.

Bulb replacement ⇨ 123. Fuses ⇨ 128.

Turn signals ⇨ 65.

Seat belt reminder



Seat belt reminder on front seats

for driver's seat illuminates or flashes red.

²for front passenger seat illuminates or flashes red, when seat is occupied.

Illuminates

After the ignition is switched on. 100 seconds after starting the engine or reaching a specific distance or speed. Until the seat belt is fastened.

Flashes

For 100 seconds after starting the engine or reaching a specific distance or speed. Until the seat belt is fastened.

Fastening the seat belt ⇨ 31.

Airbag and belt tensioners

illuminates red.

When the ignition is switched on, the control indicator illuminates for about 4 seconds. If it does not illuminate, does not go out after 4 seconds or illuminates whilst driving, there is a fault in the belt tensioner or in the airbag system. The systems may fail to trigger in the event of an accident.

Deployment of the belt tensioners or airbags is indicated by continuous illumination of .

⚠Warning

Have the cause of the fault remedied immediately by your Holden Dealer.

Airbag system, belt tensioners ⇨ 33, ⇨ 29.

Charging system

illuminates or flashes red.

It illuminates when the ignition is switched on and goes out shortly after the engine starts.

Illuminates when the engine is running

Stop, switch off engine. Battery is not charging. Engine cooling may be interrupted. In diesel engines, power to the brake servo unit may be cut. Seek the assistance of your Holden Dealer.

Malfunction Indicator Lamp

illuminates or flashes yellow.

It illuminates when the ignition is switched on and goes out shortly after the engine starts.

Service vehicle soon

illuminates yellow.

It illuminates in combination with a warning code.

Vehicle messages ⇨ 58.

Brake and clutch system

BRAKE illuminates red.

Illuminates when the parking brake is actuated if the brake/clutch fluid level is too low or if there is a brake system fault ⇨ 122.

⚠Warning
Stop. Do not continue your journey. Consult your Holden Dealer.

Illuminates after the ignition is switched on if the manual parking brake is applied ⇨ 101.

Antilock brake system (ABS)

ABS illuminates yellow.

Illuminates for a few seconds after the ignition is switched on. The system is ready for operation when the control indicator goes out.

If the control indicator does not go out after a few seconds, or if it illuminates while driving, there is a fault in the ABS. The brake system remains operational but without ABS regulation.

Antilock brake system ⇨ 100.

Ultrasonic parking assist

(If fitted)

P illuminates yellow.

Fault in system

or

Fault due to sensors that are dirty or covered by ice or snow

or

Interference due to external sources of ultra sound. Once the source of interference is removed, the system will operate normally.

Have the cause of the fault in the system remedied by your Holden Dealer.

Ultrasonic parking sensors ⇨ 105.

Electronic Stability Control

illuminates or flashes yellow.

Illuminates
A fault in the system is present. Continued driving is possible. Driving stability, however, may deteriorate depending on road surface conditions.

Have the cause of the fault remedied by your Holden Dealer.

Flashes
The system is active. Engine output may be reduced and the vehicle may be braked automatically to a small degree.

Electronic Stability Control off
illuminates yellow.

Illuminates when the system is deactivated.

Traction Control system off
illuminates yellow.

Illuminates when the system is deactivated.

Preheating
(If fitted)

illuminates yellow.

Illuminates when preheating is activated. Only activates when outside temperature is low.

Diesel particle filter
(If fitted)

illuminates or flashes yellow.

The diesel particle filter requires cleaning. Diesel particle filter ⇨ 95.

Illuminates
The diesel particle filter requires cleaning. Start cleaning process as soon as possible.
Cleaning process ⇨ 96.

Flashes
The previous four cleaning cycles have been interrupted prior to completion. Start cleaning process immediately to avoid damage to the engine. Cleaning process ⇨ 96.

Engine oil pressure
illuminates red.

It illuminates when the ignition is switched on and goes out shortly after the engine starts.

Illuminates when the engine is running

Caution
Engine lubrication may be interrupted. This may result in damage to the engine and/or locking of the drive wheels.

1. Depress clutch.
2. Select neutral gear, set selector lever to **N**.
3. Move out of the flow of traffic as quickly as possible without impeding other vehicles.
4. Switch off ignition.

⚠Warning

When the engine is off, considerably more force is needed to brake and steer.

Do not remove key until vehicle has come to a standstill, otherwise the steering column lock could engage unexpectedly.

Check oil level before seeking assistance of your Holden Dealer ⇨ 120.

Low fuel

⬬ illuminates yellow.

Illuminates when level in fuel tank is too low.

Catalytic converter ⇨ 96.

Bleeding the diesel fuel system ⇨ 123.

Immobiliser

illuminates or continuously flashes yellow.

Fault in the electronic immobiliser system. The engine cannot be started.

Exterior light

illuminates green.

Illuminates when the parking lights are on ⇨ 63.

High beam

illuminates blue.

Illuminates when high beam is on and during headlight flash ⇨ 64.

Fog light

(If fitted)

illuminates green.

Illuminates when the front fog lights are on ⇨ 65.

Cruise control

illuminates white or green.

Illuminates white

The system is on.

Illuminates green

A certain speed is stored.

Cruise control ⇨ 103

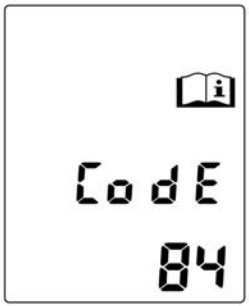
Door Ajar Light

illuminates red.

It illuminates when a door or the boot lid is open.

Information displays

Driver Information Centre



The Driver Information Centre (DIC) is located in the instrument cluster.

Selecting functions

The menus and functions can be selected by the buttons on the turn signal lever.

Press the **MENU** button to switch between the menus.

The menu is locked when vehicle is moving or shift lever is not in **P** position.

The following menus can be selected:

- **Unit settings**
- **Trip/Fuel Information**

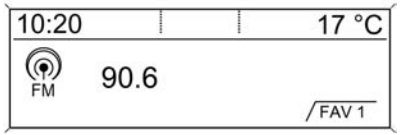
Turn the adjuster wheel to scroll through a menu option or to set a numeric value.

Press the **SET/CLR** button to select a function or to confirm a message.

Vehicle personalisation ⇨ 60.

Trip computer ⇨ 59.

Graphic Information Display (GID)



Display of time, outside temperature, date or Infotainment system (when it is on) and settings for vehicle personalisation.

Selecting functions

Functions and settings are accessed via the display.

Selections are made via:

- menus
- function buttons and **CONFIG** button of the Infotainment system

Selecting with the Infotainment system

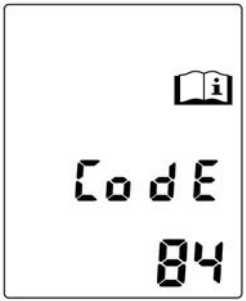
Select menu items via the menus and using the Infotainment system buttons. The **CONFIG** button is used to select an item and the **MENU** button to confirm.

To exit a menu, press **BACK**.

Vehicle messages

Messages are given via the Driver Information Centre (DIC), the Info-Display or as warning and signal buzzers. Confirm warning messages with the **SET/CLR** button on the turn signal lever.

If necessary seek the assistance of your Holden Dealer.



The vehicle messages are displayed as code numbers.

No.	Vehicle message
25	Left front turn indicator failure
26	Left rear turn indicator failure
27	Right front turn indicator failure
28	Right rear turn indicator failure
35	Replace battery in remote control
54	Water in diesel fuel filter
55	Diesel particle filter is full ⇨ 95
68	Service power steering
75	Service air conditioner
79	Top up engine oil
82	Change engine oil soon ⇨ 149
84	Engine power is reduced
95	Airbag or belt tensioner fault

Warning chimes

When starting the engine or whilst driving

- If seat belt is not fastened.
- If a door or the boot lid is not fully closed when starting off.
- If a certain speed is exceeded with parking brake applied.
- If a warning code appears in the Driver Information Centre.
- If the parking assist detects an object (if fitted).

When the vehicle is parked and/or the driver's door is opened

- When the key is in the ignition switch.
- With parking lights on.

Trip computer

The menus and functions can be selected with the turn signal lever.

Turn the adjuster wheel to select one of the submenus:

- Trip meter
- Average consumption
- Range
- Average speed
- Instantaneous consumption

Trip meter

To reset, press the **SET/CLR** button for a few seconds.

Average consumption

Display of average consumption. The measurement can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Range

Range is calculated from current fuel tank content and current consumption. The display shows average values.

After refuelling, the range is updated automatically after a brief delay.

When the fuel level in the tank is low, the indicator ⬬ in the fuel gauge will illuminate.

Average speed

Display of average speed. The measurement can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Instantaneous consumption

Instantaneous consumption is displayed while the vehicle is moving.

Vehicle personalisation

The vehicle's parameters can be personalised by changing the settings in the Driver Information Centre and in the Info-Display.

Depending on vehicle equipment, some of the functions described below might not be available.

Note

The Info-Display and the Driver Information Centre are both locked when the vehicle is moving or the selector lever is not in **P** position.

Settings in the Driver Information Centre

The **Unit** settings can be selected by the buttons on the turn signal lever.

Press the **MENU** button to select the menu **Unit**.

The **Unit** settings menu is displayed.

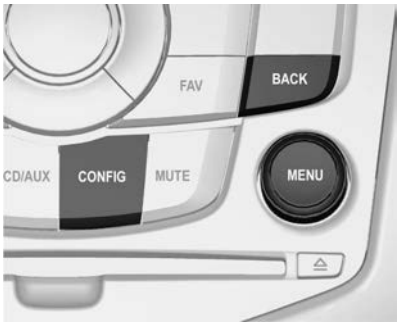
Displayed units can be changed.

Press the **SET/CLR** button to select the unit setting mode.

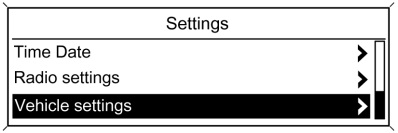
- **Unit1**: Great Britain
- **Unit2**: United States
- **Unit3**: Europe/Australia

Turn the adjuster wheel to select **Unit3**. Press the **SET/CLR** button to confirm.

Settings in the Info-Display



Switch the Infotainment system on and press the **CONFIG** button. The **Settings** menu is displayed.



The following settings can be selected by rotating and pushing the **MENU** button:

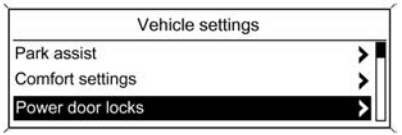
- **Time Date**
- **Radio settings**
- **Vehicle settings**

In the corresponding submenus the following settings can be changed:

Time Date
See Clock ⇨ 48.

Radio settings
See Infotainment section for further information.

Vehicle settings



- **Comfort settings**

  Chime volume: Change the volume of warning chimes.
- **Park assist** (If fitted)

  Park assist: Activate or deactivate the ultrasonic sensors.
- **Exterior ambient lighting**

  Exterior lighting by unlocking: Activate or deactivate the entry lighting.

  Duration upon exit of vehicle: Activate or deactivate and change the duration of exit lighting.

■ **Languages**

Selection of the desired language.

■ **Power door locks**

Auto door lock: Activate or deactivate the automatic door locking function, including boot lid and fuel filler flap. Will activate and lock doors, boot lid and fuel filler flap when vehicle takes off.

Auto door unlock: Change the configuration to unlock only the driver's door or all doors whilst unlocking. Will activate and unlock doors, boot lid and fuel filler flap when vehicle is placed in park (Auto only). Will activate and unlock doors, boot lid and fuel filler flap when ignition key is removed from the ignition barrel (Manual only).

■ **Remote locking, unlocking, starting**

Remote unlock feedback: Activates or deactivates the hazard warning light and lights (when dark), whilst unlocking.

Remote lock feedback: Activates or deactivates the hazard warning light, lights and horn feedback whilst locking.

Remote door unlock: Activates or deactivates the remote door unlocking function.

Note

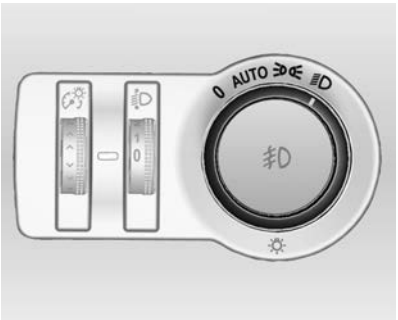
For further information on changing settings in the graphic info display, please refer to the Infotainment section ⇨ 75.

Lighting

Exterior lighting 63
Interior lighting 66
Lighting features 67

Exterior lighting

Light switch



Turn light switch:

AUTO = Automatic light control: Headlights are switched on and off automatically depending on external lighting conditions.

0 = Activation or deactivation of the automatic light control. Switch turns back to **AUTO**.

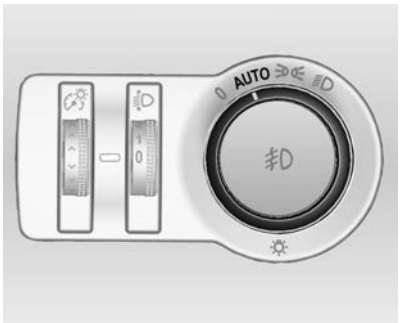
≡D = Parking lights

≡D = Headlights and parking lights

When switching on ignition, automatic light control is always active.

When lights are on, ≡D lights up. Control indicator ≡D ⇨ 56.

Automatic light control



Automatic light control function

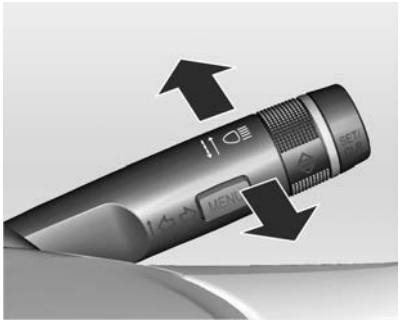
When the automatic light control function is switched on and the engine is running, the system switches the headlights and taillights on and off according to ambient light conditions.

Automatic headlight activation

During poor lighting conditions the headlights and taillights are switched on.

Furthermore, the headlights are switched on if the windscreen wipers have been activated for several wipes.

High beam



To switch from low to high beam, push lever.

To switch to low beam, push lever again or pull.

⚠Warning

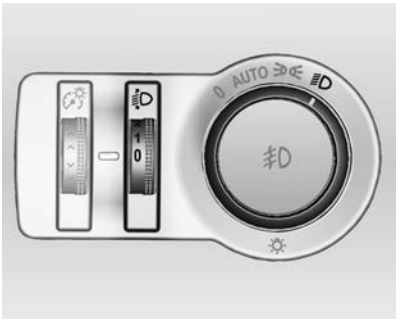
Always switch the high beam headlamps to low beam when you approach oncoming vehicles or when other vehicles ahead. High beam headlamps can temporarily blind other drivers, which could result in a collision.

Headlight flash

To activate the headlight flash, pull lever.

Headlight range adjustment

Manual headlight range adjustment



To adapt headlight range to the vehicle load to prevent glare: turn knob to required position.

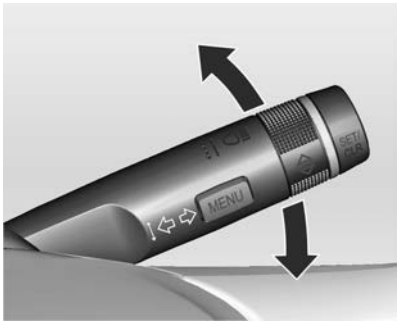
0 = front seats occupied
1 = all seats occupied
2 = all seats occupied and boot compartment laden
3 = driver's seat occupied and boot compartment laden.

Hazard warning flashers

Operated with the ⚠ button.

The hazard warning flashers activate automatically if the airbags deploy.

Turn and lane-change signals



lever up = left indicator
lever down = right indicator

If the lever is moved past the resistance point, the indicator is switched on constantly. When the steering wheel moves back, the indicator is automatically deactivated.

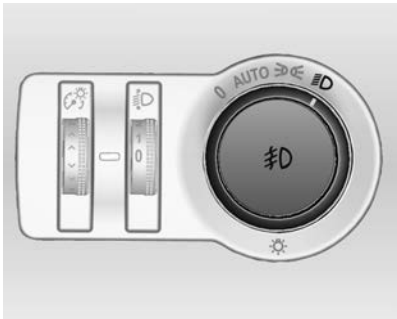
For three flashes, e.g. when changing lanes, press the lever until resistance is felt and then release.

Move the lever to the resistance point and hold for longer indication.

Switch the indicator off manually by moving the lever in its original position.

Front fog lights

(If fitted)



Operated with the ≢D button.

Reversing lights

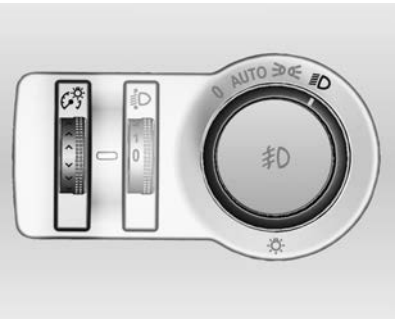
The reversing lights come on when the ignition is on and reverse gear is selected.

Misted light covers

The inside of the light housing may mist up briefly in poor, wet and cold weather conditions, in heavy rain or after washing. The mist disappears quickly by itself; to help switch on the headlights.

Interior lighting

Instrument panel illumination control



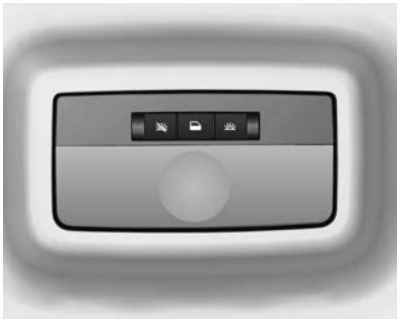
Brightness of the following lights can be adjusted when the exterior lights are on:

- Instrument panel illumination
- Steering wheel controls
- Info-Display
- Climate control operation elements
- Illuminated switches

Turn knob and hold until the desired brightness is obtained.

Interior lights

Courtesy light (if fitted)



During entry and exit of the vehicle, the courtesy lights automatically switch on and then off after a delay. It switches on for a short time even if the key is withdrawn from the ignition lock.

Operate rocker switch:

	=	automatic switching on and off
press	=	always on
press	=	always off

Reading lights

Operated with and buttons.

Lighting features

Entry lighting

Welcome lighting

Headlights, tail lights and interior lights illuminate for a short time when unlocking the vehicle with the remote control. This function facilitates retrieving the vehicle when it is dark.

The lighting switches off immediately when the ignition is turned to the accessory position.

Activation or deactivation of this function can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 60.

Entrance lighting

The following lights will additionally illuminate when driver`s door is opened:

- All switches
- Driver Information Centre
- Some interior lights

Exit lighting

Headlights and tail lights illuminate the way for an adjustable time after leaving the vehicle.

Switching on

1. Switch off ignition.
2. Remove ignition key.
3. Open driver's door.
4. Pull turn signal lever.
5. Close driver's door.

If the driver's door is not closed the lights switch off after two minutes.

The lighting is switched off immediately if the turn signal lever is pulled while the driver's door is open.

Activation, deactivation and duration of lighting of this function can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ⇨ 60.

Battery discharge protection

Switching off electric lights

To prevent discharge of the battery when the ignition is switched off, some interior lights are switched off automatically after some time.

Infotainment system

Introduction 69
Radio 78
CD Player 81
AUX input 84
USB port 85

Introduction

General information

The Infotainment system provides you with state-of-the-art in-car Infotainment.

The radio is equipped with twelve automatically assignable channel presets for both the AM and FM wavebands. Furthermore, 36 channels can be allocated manually (waveband-independent).

The integrated audio player will entertain you with audio CDs and MP3/WMA CDs.

Furthermore, you can connect external data storage devices, e. g. iPod®, Zune®, MP3 player or USB stick, or a portable CD player to the Infotainment system as further audio sources.

The digital sound processor provides you with several preset equaliser modes for sound optimisation.

Optionally, the Infotainment system can be operated using controls on the steering wheel.

The well-thought-out design of the control elements, the clear displays and the multifunctional **MENU** knob enable you to control the system easily and intuitively.

iPod® is a registered trademark of Apple Inc.

Zune® is a registered trademark of Microsoft Corporation.

Important information on operation and traffic safety

⚠Warning

The Infotainment system must be used in a manner that ensures safe vehicle operation at all times. If in doubt, stop your vehicle and operate the Infotainment system while the vehicle is stationary.

Radio reception

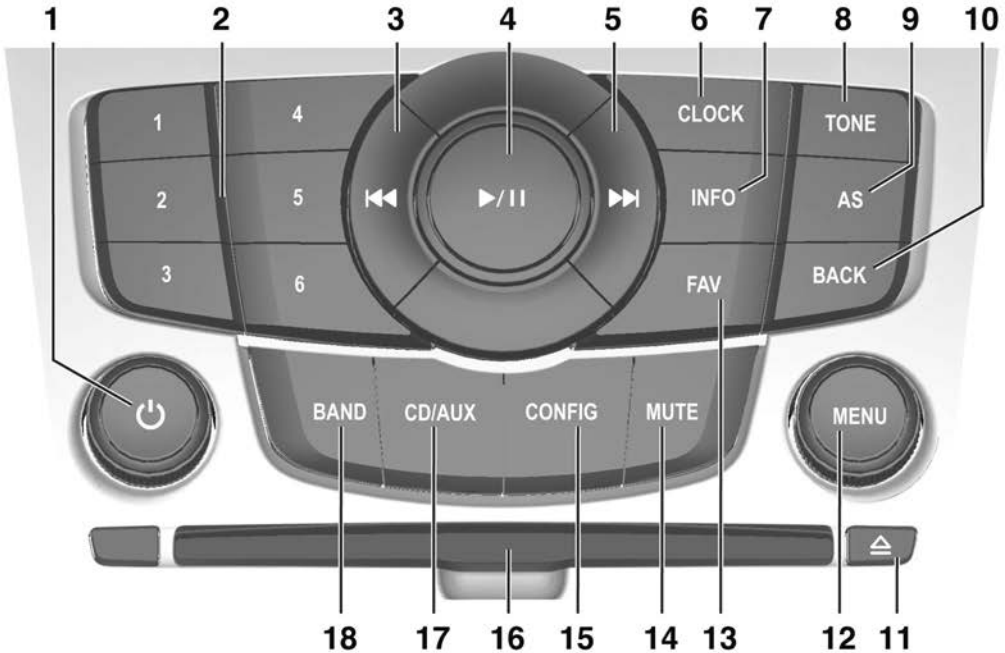
Radio reception may be disrupted by static, noise, distortion or loss of reception due to

- changes in distance from the transmitter,
- multi-path reception due to reflection,
- shadowing.

Theft-deterrent feature

The Infotainment system is equipped with an electronic security system for the purpose of deterring thefts.

The Infotainment system therefore functions only in your vehicle and is worthless for a thief.


1
2
3
4
5
6
7
8
9
10
1
4
2
5
3
6
CLOCK
INFO
FAV
TONE
AS
BACK
▶/II
BAND
CD/AUX
CONFIG
MUTE
MENU
18
17
16
15
14
13
12
11

Control elements overview

Instrument panel

1 ⏻ knob 73
Press: switch on/off Infotainment system 73
Turn: adjust volume 73

2 Station buttons 1...6 78
Long press: save station 78
Short press: select station 78

3 Radio: search backward 78
CD/MP3/WMA: skip track backward 82

4 CD/MP3/WMA: start/ pause replay 85

5 Radio: search forward 78
CD/MP3/WMA: skip track forward 82

6 CLOCK 48
If Infotainment system switched off: display time and date 48
If Infotainment system switched on: change setting for time and date 48

7 INFO 78
Additional, situation-dependent information 78

8 TONE 75
Tone settings 75

9 AS 78
Automatic memory levels 78
Short press: select autostore list 78
Long press: save stations automatically 78

10 BACK 74
Menu: one level back 74

11 CD ejection 82

12 MENU knob 74
Central control for selection and navigation in menus 74

13 FAV 79
Favourite lists (preset radio stations) 79

14 MUTE 73
Activate/deactivate mute 73

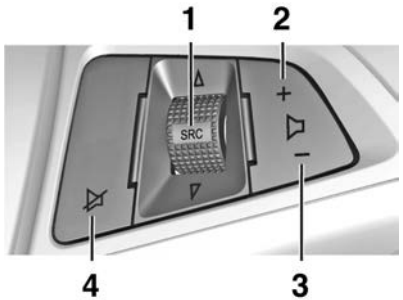
15 CONFIG 77
System settings 77

16 CD slot 82

17 CD/AUX 85
Start CD/MP3/WMA replay or change audio source 85

18 BAND 78
Activate radio or change waveband 78

Steering wheel audio controls



1 SRC (Source) 71
Press: select audio source 71
If radio active: turn upwards/downwards to select next/previous preset radio station 78
If CD player active: turn upwards/downwards to select next/previous CD/ MP3/WMA track 82

2 Increase volume 71

3 Reduce volume 71

4 Activate/deactivate mute 73

Usage

Control elements

The Infotainment system is operated via function buttons, multifunctional knobs and menus that are shown on the display.

Inputs are made optionally via:

- the central control unit in the instrument panel ⇨ 71
- controls on the steering wheel ⇨ 71

Switching the Infotainment system on or off

Press the ⏻ knob briefly. After switching on, the last selected Infotainment source is active.

Automatic switch-off

If the Infotainment system has been switched on using the ⏻ knob when the ignition was switched off, it will switch off again automatically 10 minutes after the last user input.

Setting the volume

Turn the ⏻ knob. The current setting is shown on the display.

When the Infotainment system is switched on, audio will play at the last selected volume level if that level is lower than the maximum startup volume.

The maximum startup volume can be set separately ⇨ 77.

Speed-compensated volume

When speed-compensated volume is activated ⇨ 77 the volume is adapted automatically to make up for the road and wind noise as you drive.

Mute

Press the **MUTE** button to mute the audio sources.

To cancel mute again: turn the ⏻ knob or press the **MUTE** button again.

Volume limitation at high temperatures
At very high temperatures inside the vehicle, the Infotainment system limits the maximum adjustable volume. If necessary, the volume is decreased automatically.

Modes of operation

Radio
Press the **RADIO** button to open the radio main menu or to change between the different wavebands.

Press the **MENU** knob to open a submenu with options for station selection.

Detailed description of the radio functions ⇨ 78.

Audio players
Press the **CD/AUX** button to open the CD, USB, iPod® or AUX menu (if available) or to swap between these menus.

Press the **MENU** knob to open a submenu with options for track selection.

Detailed description of:
- CD player functions ⇨ 82
- AUX input functions ⇨ 85
- USB port functions ⇨ 85

Basic operation

MENU knob
The **MENU** knob is the central control element for the menus.

Turn
- to mark a menu option
- to set a numeric value

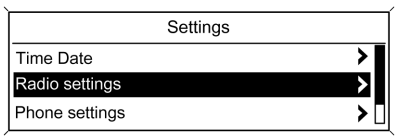
Press
- to select or activate the marked option
- to confirm a set value
- to switch a system function on/off

BACK button
Press the button briefly to:
- exit a menu
- return from a submenu to the next higher menu level
- delete the last character in a character sequence

Press and hold the button for a few seconds to delete the entire entry.

Examples of menu operation

Selecting an option

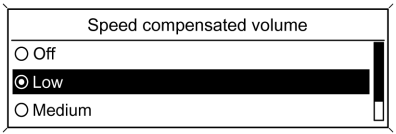


Turn the **MENU** knob to move the cursor (= coloured background) to the desired option.

Press the **MENU** knob to select the marked option.

Submenus
An arrow on the right-hand edge of the menu indicates that after selection of the option a submenu with further options will be opened.

Activating a setting



Turn the **MENU** knob to mark the desired setting.

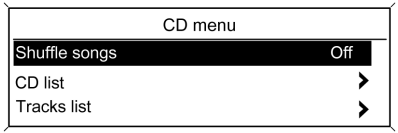
Press the **MENU** knob to activate the setting.

Setting a value

Turn the **MENU** knob to change the current value of the setting.

Press the **MENU** knob to confirm the set value.

Switching a function on or off

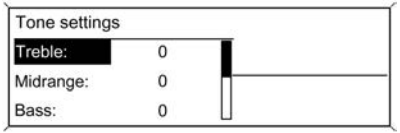


Turn the **MENU** knob to mark the function to be switched on or off.

Press the **MENU** knob to switch between the settings **On** and **Off**.

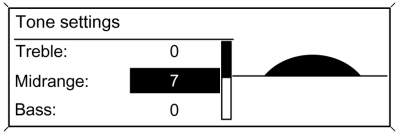
Tone settings

In the tone settings menu, tone characteristics can be set independently for each radio waveband and each audio player source.



Press the **TONE** button to open the tone menu.

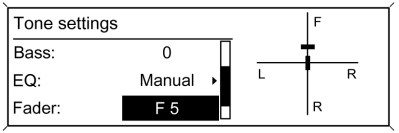
Setting bass, middle and treble



Select **Bass:**, **Midrange:** or **Treble:**.

Set the desired value for the selected option.

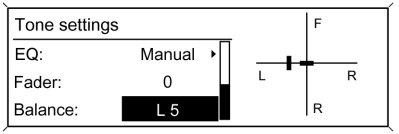
Setting the volume distribution between front - rear



Select **Fader:**.

Set the desired value.

Setting the volume distribution between right - left



Select **Balance:**.

Set the desired value.

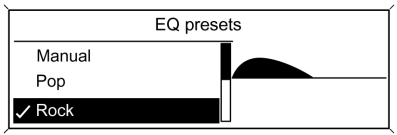
Setting an individual setting to "0"

Select the desired option and press and hold the **MENU** knob for a few seconds.

Setting all settings to "0" or "Off"

Press and hold the **TONE** button for a few seconds.

Optimising the tone for the style of music



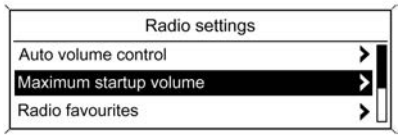
Select **EQ:** (Equaliser).

The displayed options offer optimised bass, middle and treble presettings for the relevant style of music.

Select the desired option.

Volume settings

Maximum startup volume

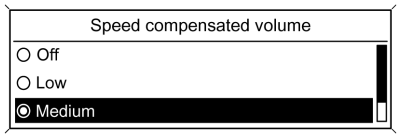


Press the **CONFIG** button to open the system settings menu.

Select **Radio settings** and then **Maximum startup volume**.

Set the desired value.

Speed-compensated volume



Press the **CONFIG** button to open the system settings menu.

Select **Radio settings** and then **Speed-compensated volume**.

Speed-compensated volume can be deactivated or the degree of volume adaptation can be selected in the menu displayed.

Select the desired option.

Radio

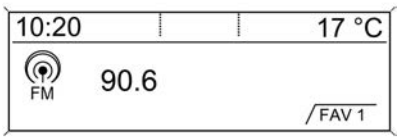
Usage

Control buttons

The most important buttons for control of the radio are as follows:

- **RADIO**: Activate radio
- ⏮ ⏭: Station search
- **AS**: Autostore lists
- **FAV**: Favourite lists
- **1...6**: Preset buttons

Activating the radio



Press the **RADIO** button to open the radio main menu.

The radio will tune into the last station played.

Selecting the waveband

Press the **RADIO** button once or several times to select the desired waveband.

The radio will tune into the last station played in that waveband.

Station search

Automatic station search

Briefly press button ⏮ or ⏭ to play the next station in the station memory.

Manual station search

Press button ⏮ or ⏭ for a few seconds to start a search for the next receivable station in the current waveband.

When the required frequency has been reached the station is played automatically.

Note

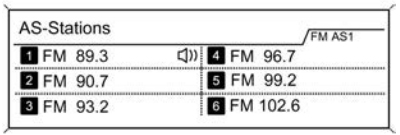
Manual station search: If the radio does not find a station, it switches automatically to a more sensitive search level. If it still does not find a station, the frequency that was last active is set again.

Manual station tuning

Turn the **MENU** knob and set the optimal reception frequency on the pop-up frequency display.

Autostore lists

The stations that can be received best in a waveband can be searched for and stored automatically via the autostore function.



Note
The currently received station is marked by 🔊.

Each waveband has 2 autostore lists (**AS 1**, **AS 2**). 6 stations can be stored in each autostore list.

Automatic station storing

Keep the **AS** button pressed until an autostore message is displayed. The 12 strongest stations in the current waveband will be stored in the 2 autostore lists.

To abort the autostore procedure, press the **MENU** knob.

Storing stations manually

Stations can also be stored manually in the autostore lists.

Set the station to be stored.

Briefly press the **AS** button to open an autostore list or to switch to another autostore list.

To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

Note
Manually stored stations are overwritten in an automatic station storing process.

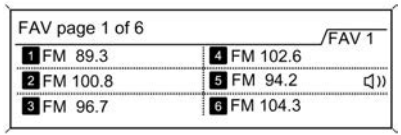
Retrieving a station

Briefly press the **AS** button to open an autostore list or to switch to another autostore list.

Briefly press one of the station buttons 1...6 to open the station at the corresponding list position.

Favourite lists

Stations of all wavebands can be stored manually in the favourite lists.



6 stations can be stored in each favourite list. The number of available favourite lists can be set (see below).

Note
The currently received station is marked by 🔊.

Storing a station

Set the station to be stored.

Briefly press the **FAV** button to open a favourite list or to switch to another favourite list.

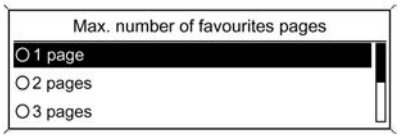
To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

Retrieving a station

Briefly press the **FAV** button to open a favourite list or to switch to another favourite list.

Briefly press one of the station buttons 1...6 to open the station at the corresponding list position.

Defining the number of available favourite lists



Press the **CONFIG** button.

Select **Radio settings** and then **Radio favourites**.

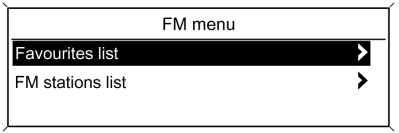
Select the desired number of available favourite lists.

Waveband menus

Alternative facilities for station selection are available via waveband-specific menus.

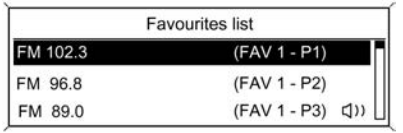
With the radio main menu active, press the **MENU** knob to open the relevant waveband menu.

Note
The following FM-specific displays are shown as examples.



Favourites list

Select **Favourites list**. All stations saved in the favourites lists are displayed.



Select the required station.

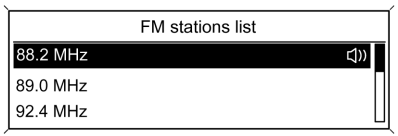
Note
The currently received station is marked by .

Stations lists

Select **AM stations list** or **FM stations list**.

All receivable AM/FM stations in the current reception area are displayed.

Note
If no station list has been created beforehand, the Infotainment system performs an automatic station search.



Select the required station.

Note
The currently received station is marked by 🔊.

Updating stations lists

FM waveband: the dual tuner of the Infotainment system continuously updates the FM stations list in the background. No manual update is required.

AM waveband: if the stations stored in the AM stations list can no longer be received, select **Update AM stations list**.

A station search is started. Once the search is completed, the station last received will be played.

To abort the station search, press the **MENU** knob.

CD Player

General information

The Infotainment system's CD player can play audio CDs and MP3/WMA CDs.

Important information about audio CDs and MP3/WMA CDs

Caution
Under no circumstances place DVDs, single-CDs with a diameter of 8 cm or shaped CDs in the audio player. You must not put any stickers on CDs. These discs can get jammed in the CD drive and ruin the drive. An expensive replacement of the device will then be necessary.

- Copy-protected audio CDs are not in compliance with audio CD standards and may not play correctly or may not play at all.

- Self-recorded CD-Rs and CD-RWs are more vulnerable to mishandling than prerecorded CDs. Correct handling, especially in the case of self-recorded CD-Rs and CD-RWs, must be ensured. See below.
- Self-recorded CD-Rs and CD-RWs may not play correctly or may not play at all. In such cases, it is not the equipment that is at fault.
- On mixed-mode CDs (both audio tracks and compressed files, e. g. MP3, are stored), the audio tracks part and the compressed files part can be played separately.
- Avoid leaving fingerprints when you change CDs.
- Put CDs back in their sleeves immediately after removing them from the CD player in order to protect them from damage and dirt.
- Dirt and liquids on CDs can smear the lens of the CD player inside the device and cause faults.
- Protect CDs from heat and direct sunlight.
- The following restrictions apply for the data stored on an MP3/WMA CD:

  Number of tracks: max. 999.

  Number of folders: max. 255.

  Folder structure depth: max. 64 levels (recommended: max. 8 levels).

  Number of playlists: max. 15.

  Number of songs per playlist: max. 255.

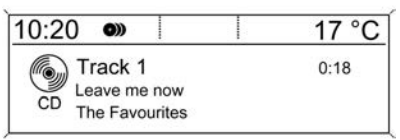
  Applicable playlist extensions: .m3u, .pls, .asx, .wpl.
- This chapter deals only with playing MP3 files since the operation for MP3 and WMA files is identical. When a CD with WMA files is loaded, MP3-related menus are displayed.

Usage

The most important buttons for control of the CD player are as follows:

- **CD/AUX**: Select CD player
- ⏮ ⏭: Select a track, fast forward/ rewind
- ▶/⏸: Pause/restart replay
- ⏏: Eject CD

Starting CD replay



Press the **CD/AUX** button once or several times to open the CD or MP3 menu.

If there is a CD in the CD player, CD replay is started.

Depending on the data stored on the audio CD or MP3 CD, differing information about the CD and the current music track will be shown on the display.

Pause replay

Press the ▶/II button.

To restart replay, press the ▶/II button again.

Inserting a CD

Insert a CD with the printed side facing up into the CD slot until it is drawn in.

Skipping to the next track or previous track

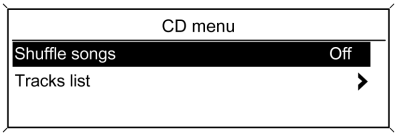
Briefly press the button ⏮ or ⏭.

Fast forward or rewind

Press and hold button ⏮ or ⏭ to fast forward or rewind the current track.

Selecting tracks using the audio CD or MP3 menu

During audio CD replay

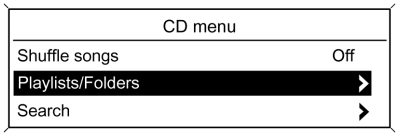


Press the **MENU** knob to open the audio CD-related menu.

To play all tracks in random order: set **Shuffle songs** to **On**.

To select a track on the audio CD: select **Tracks list** and then select the desired track.

During MP3 replay



Press the **MENU** knob to open the MP3-related menu.

To play all tracks in random order: set **Shuffle songs** to **On**.

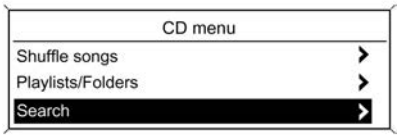
To select a track from a folder or playlist (if available): select **Playlists/ Folders**.

Select a folder or playlist and then select the desired track.

Note

If a CD contains both audio and MP3 data, the audio data can be selected from **Playlists/Folders**.

Additional options for track search and selection
Various options, which depend on the data saved, are available for the selection and playing of MP3 CD tracks.



Press the **MENU** knob and then select **Search** to display the options available.

The search process on the MP3 CD may take several minutes. During this time, the radio will tune into the last station played.

Removing a CD

Press the ⏏ button.

The CD is pushed out of the CD slot.

If the CD is not removed after ejection, it will be drawn back in again automatically after a few seconds.

AUX input

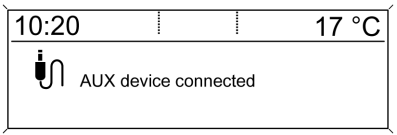
General information

An AUX socket used for the connection of external audio sources is located under the cover on the centre console.

Note
The socket must always be kept clean and dry.

It is possible, for example, to connect a portable CD player with a 3.5 mm jack plug to the AUX input.

Usage



Press the **CD/AUX** button once or several times to activate the AUX mode.

An audio source that is connected to the AUX input can be operated only via the control elements of the audio source.

USB port

General information

(USB port only available for devices with PDIM)

An AUX socket used for the connection of external audio sources is located under the cover on the centre console.

Devices connected to the USB port are operated via the controls and menus of the Infotainment system.

Note
The socket must always be kept clean and dry.

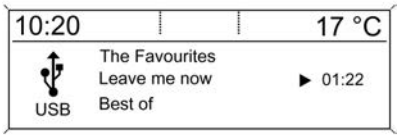
Important information

The following devices can be connected to the USB port:

- iPod®
- Zune®
- PlaysForSure device (PFD)
- USB drive

Note
Not all iPod®, Zune®, PFD or USB drive models are supported by the Infotainment system.

Playing saved audio files



Press the **CD/AUX** button once or several times to activate the USB mode.

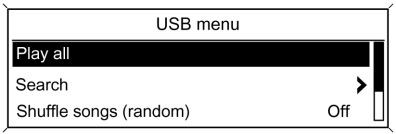
Replay of the audio data stored on the USB device is started.

The operation of data sources connected via USB is mainly the same as for an audio MP3 CD ⇨ 82.

Only the aspects of operation that are different/additional are described below.

Operation and screen displays are described for USB drives only. Operation of other devices like iPod® or Zune® is mainly the same.

Selecting tracks using the USB menu



Press the **MENU** knob to open the USB-related menu.

To play all tracks in succession: select **Play all**.

To display a menu with various additional options for track search and selection: select **Search**.

The search process on the USB device may take several minutes. During this time, the radio will tune into the last station played.

To play all tracks in random order: set **Shuffle songs (random)** to **On**.

To repeat the currently played track: set **Repeat** to **On**.

Climate control

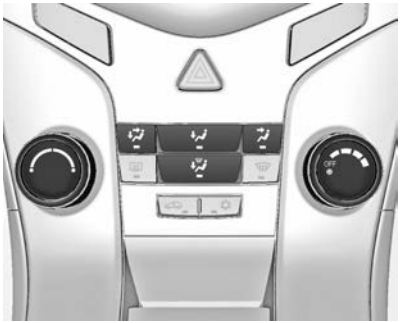
Climate control systems 87
Air vents 90
Maintenance 91

Climate control systems

Air conditioning system

Controls for:

- Temperature
- Air distribution
- Fan speed
- Demisting and defrosting
- Air recirculation
- Cooling
- Heated rear window



Temperature

Adjust the temperature by turning the knob.

red = warm
blue = cold

Heating will not be fully effective until the engine has reached its operating temperature.

Air distribution

Select air outlet by pushing buttons.

= to head area and foot well
= to foot well
= to head area via adjustable air vents
= to windscreen and foot well

Fan speed

Adjust the air flow by switching the fan to the desired speed.

Air conditioning

Operated with the button and is functional only when the engine and fan are running.

The air condition system cools and dehumidifies (dries) the interior of the vehicle, when outside temperature is a little above 0 °C. Therefore condensation may form and drip from under the vehicle.

If no cooling or drying is required, switch the air conditioning system off to save fuel.

Note
When switching on/off the air conditioning system using the air conditioning button, the Info-Display will show **Climate control on** for on or **Climate control off** for off.

Air recirculation system

The air recirculation mode is operated with the button.

⚠Warning

Driving with recirculation mode for prolonged period of time can make you sleepy. Periodically turn to the outside air mode for fresh air.

The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

Demisting and defrosting the windows

- Push button : the air distribution is directed automatically to the windscreen,
- Set temperature control to warmest level.
- Switch on heated rear window .
- Open side air vents as required and direct them towards the door windows.

Note
When demist button is selected, the air conditioning is automatically switched on, but the air conditioning switch will not illuminate.

Heated rear window ⇨ 24.

Maximum cooling

Briefly open the windows so that hot air can disperse quickly.

- Switch on air conditioning .
- Switch on air circulation system .
- Push air distribution switch .
- Set temperature control to coldest level.
- Set fan speed to highest level.
- Open all vents.

Indication of settings

(Info-Display)

Each change of settings is indicated in the Info-Display for a few seconds.

Selected functions are indicated by the LED of the activated button.

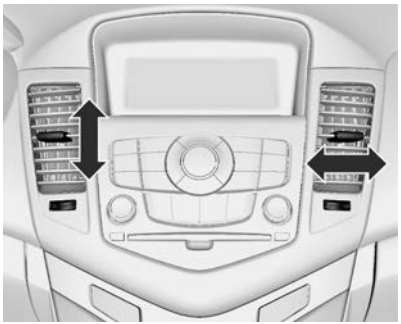
Note
Only fan speed, recirc and mode will be shown on the Info-Display.

It will also show **Climate control on** or **Climate control off** when switching on or off the air conditioning via the air conditioning switch.

Air vents

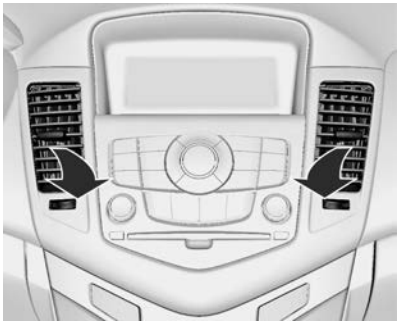
Adjustable air vents

At least one air vent must be open while cooling is on in order to prevent the evaporator from icing up due to lack of air movement.



To open vent, turn the adjuster wheel to ⦚.

Direct the flow of air by tilting and swivelling the slats.



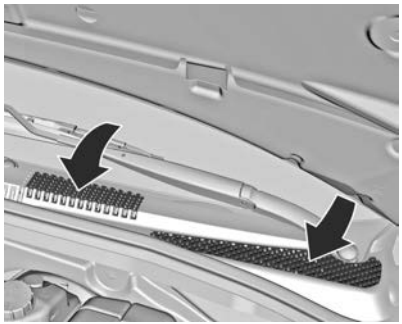
To close the vent, turn the adjuster wheel to ☒.

Fixed air vents

Additional air vents are located beneath the windscreen and door windows and in the foot wells.

Maintenance

Air intake



The air intake in front of the windscreen in the engine compartment must be kept clear to allow air intake. Remove any leaves, dirt or snow.

Pollen filter

Manual controlled pollen filter

The filter cleans dust, soot, pollen, spore and smell (combi filter) from the air entering the vehicle through the air intake.

Air conditioning regular operation

In order to ensure continuously efficient performance, cooling must be operated for a few minutes once a month, irrespective of the weather and time of year. Operation with cooling may not be possible when outside temperature is low.

Service

For optimal cooling performance, it is recommended to annually check the climate control system by your Holden Dealer.

- Functionality and pressure test
- Heating functionality
- Leakage check

- Check of drive belts
- Cleaning of condenser and evaporator drainage
- Performance check

Driving and operating

Driving hints 93
Starting and operating 93
Engine exhaust 95
Automatic transmission 97
Manual transmission 100
Brakes 100
Ride control systems 102
Cruise control 103
Object detection systems 105
Fuel 106
Towing 108

Driving hints

Control of the vehicle

Never coast with engine not running

Many systems will not function in this situation (e.g. brake servo unit, power steering). Driving in this manner is a danger to yourself and others.

Pedals

To ensure the pedal travel is uninhibited, there must be no mats in the area of the pedals.

Starting and operating

New vehicle running-In

Use the following precautions for the first few hundred kilometres to improve the performance and economy of your vehicle and add to its long life:

- Avoid full-throttle starts.
- Do not race the engine.
- Avoid hard stops except in emergencies. This will allow your brakes to bed in properly.
- Avoid quick starts, sudden accelerations, and prolonged high-speed driving in order to avoid damage to the engine and to conserve fuel.
- Avoid full-throttle acceleration in low gear.
- Do not tow any other vehicle.

During the running-in period, fuel and engine oil consumption may be higher and the cleaning process of the diesel particle filter may take place more often.

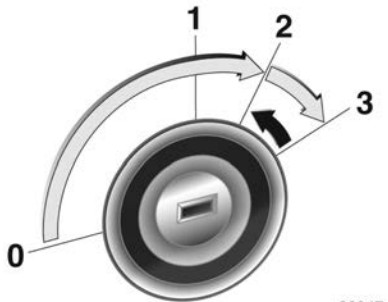
Diesel particle filter ⇨ 95.

Ignition switch positions

0 = Ignition off
1 = Ignition off, steering wheel lock released
2 = Ignition on, for diesel engine: preheating
3 = Starting

Starting the engine

Starting engine with the ignition switch



- Turn key to position 1. move the steering wheel slightly to release the steering wheel lock
- manual transmission: depress clutch
- automatic transmission: Move selector lever in **P** or **N**
- do not accelerate
- diesel engine: turn the key to position **2** for preheating until control indicator ᔓ goes out
- turn key to position **3** and release when engine is running

Before restarting or to switch off the engine, turn key back to **0**.

Overrun cut-off

The fuel supply is automatically cut off during overrun, i.e. when the vehicle is driven with a gear engaged but accelerator is released.

Parking

- Do not park the vehicle on an easily ignitable surface. The high temperature of the exhaust system could ignite the surface.
- Always apply parking brake without pressing release button. Apply as firmly as possible on downhill or uphill slopes. Depress the footbrake at the same time to reduce operating force.

- Switch off the engine and ignition. Turn the steering wheel until the steering wheel lock engages.
- If the vehicle is on a level surface or uphill slope, engage first gear or set the selector lever to **P** before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the selector lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Lock the vehicle.

Engine exhaust

⚠Danger

Engine exhaust gases contain poisonous carbon monoxide, which is colourless and odourless and could be fatal if inhaled.

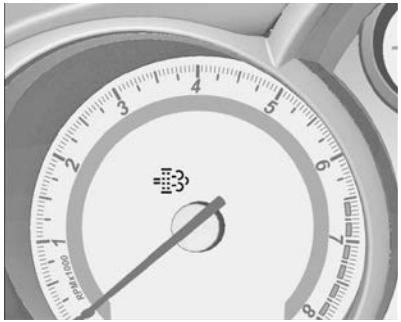
If exhaust gases enter the interior of the vehicle, open the windows. Have the cause of the fault rectified by your Holden Dealer.

Avoid driving with an open boot lid, otherwise exhaust gases could enter the vehicle.

Diesel particle filter

(If fitted)

The diesel particle filter system collects particulates from the exhaust gases to minimise discharge of soot to the atmosphere. To prevent clogging of the filter, the soot particles are burnt off at regular intervals through a self cleaning process where additional fuel is injected into the engine cylinders to increase the particle filter temperature to approximately 600°C. This allows deposited soot to be oxidized or burnt off to carbon dioxide (CO2). This process usually takes between 10 and 12 minutes but may take up to 25 minutes depending on driving conditions. Increased engine speed at idle,



operation of engine cooling fan and emissions of smell and smoke are considered to be normal conditions during the self cleaning process. Fuel consumption may also be higher during this period.

Under certain driving conditions, e.g. when operated for prolonged periods at low engine loads, the system cannot clean itself automatically. If the cleaning of the filter is required and if previous driving conditions did not enable automatic cleaning, it will be indicated by the control indicator and **CodE 55** in the Driver Information Centre.

Diesel particle filter ⇨ 55.

Cleaning process

To activate cleaning process, continue driving and when road conditions and traffic permits, increase vehicle speed above 50 km/h until turns off (10 to 25 minutes). Turning the engine off while is on or flashing will prevent the cleaning process from completing. This will result in increased fuel consumption and a reduction in engine oil life.

Do not switch off the engine until the cleaning process is complete. The control indicator extinguishes as soon as the self-cleaning operation is complete.

If also illuminates, cleaning is not possible, contact your Holden Dealer.

For more information refer to Holden.com.au/owners-info/faqs/technical

Catalytic converter

The catalytic converter reduces the amount of harmful substances in the exhaust gas.

Caution

Fuel specifications other than those listed on pages ⇨ 106, ⇨ 155 could damage the catalytic converter or electronic components.
Unburnt petrol will overheat and damage the catalytic converter. Therefore avoid excessive use of the starter, running the fuel tank dry and starting the engine by pushing or towing.

In the event of misfiring, uneven engine running, a reduction in engine performance or other unusual problems, have the cause of the fault rectified by your Holden Dealer as soon as possible. In an emergency, driving can be continued for a short period, keeping vehicle speed and engine speed low.

Automatic transmission

The automatic transmission permits manual gear-shifting (manual mode) or automatic gear-shifting (automatic mode).

Transmission display

The mode or selected gear is shown in the transmission display.

Selector lever

P = park position, wheels are locked, engage only when the vehicle is stationary and the parking brake is applied
R = reverse gear, engage only when vehicle is stationary
N = neutral
D = automatic mode with all gears.

The selector lever is locked in **P**. To move, switch on ignition, apply brake pedal and push release button.

To engage **P** or **R**, push the release button.

To start the engine, press the brake pedal in either **P** or **N** position.

Do not accelerate while engaging a gear. Never depress the accelerator pedal and brake pedal at the same time.

When a gear is engaged, the vehicle slowly begins to creep when the brake is released.

Engine braking

To utilise the engine braking effect, select a lower gear in good time when driving downhill.

Refer to manual mode ⇨ 98

Rocking the vehicle

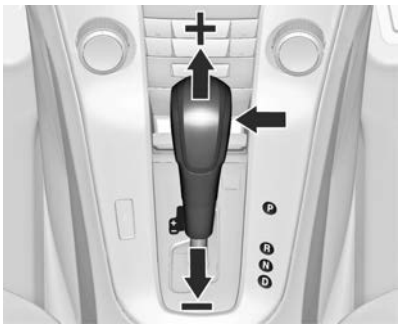
Rocking the vehicle is only permissible if the vehicle is stuck in sand, mud or snow. Move the selector lever between **D** and **R** in a repeat pattern. Do not race the engine and avoid sudden acceleration.

Parking

Apply the parking brake, engage **P** and remove ignition key.

The ignition key can only be removed when the selector lever is in position **P**.

Manual mode



Move selector lever out of position **D** towards the left and then forwards or backwards.

+ = Shift to a higher gear.

− = Shift to a lower gear.

If a higher gear is selected when vehicle speed is too low, or a lower gear when vehicle speed is too high, the shift is not executed.

If engine speed is too low, the transmission automatically shifts to a lower gear above a specific vehicle speed.

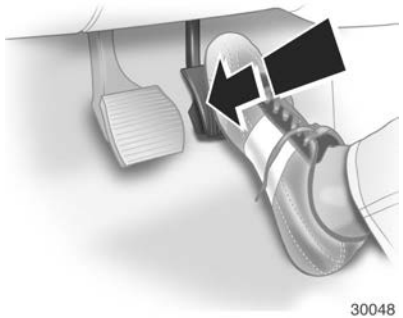
No automatic shifting to a higher gear takes place at high engine revolutions.

For reasons of safety, kickdown is also available in manual mode.

Electronic driving programmes

- Following a cold start, the operating temperature programme increases engine speed to quickly bring the catalytic converter to the required temperature.
- The automatic neutral shift function automatically shifts to idling when the vehicle is stopped with a forward gear engaged.

Kickdown



If the accelerator pedal is pressed past the pressure point, the transmission shifts to a lower gear depending on engine speed.

Fault

In the event of a fault, illuminates. Additionally a code number is displayed in the Driver Information Centre. Vehicle messages ⇨ 58.

The transmission no longer shifts automatically. Continued travel is possible with manual shifting.

Only the highest gear is available. Depending on the fault, 2nd gear may also be available in manual mode.

Have the cause of the fault remedied by your Holden Dealer.

Interruption of power supply

In the event of an interruption of power supply, the selector lever cannot be moved out of the **P** position. The ignition key cannot be moved out of the ignition lock.

If the battery is discharged, start the vehicle using jump leads ⇨ 143.

If the battery is not the cause of the fault, release selector lever and remove ignition key from ignition lock.

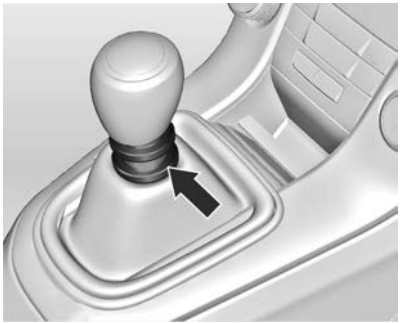
Release selector lever

1. Apply parking brake.

2. Open cover to the right of the selector lever.

3. Insert a screwdriver into the opening as far as it will go and move the selector lever out of **P**. If **P** is engaged again, the selector lever will be locked in position again. Have the cause of the power supply interruption remedied by your Holden Dealer.
4. Close cover.

Manual transmission



Reverse on vehicles with petrol engine: with the vehicle stationary, depress the clutch pedal and then pull up the ring on the selector lever and engage the gear.

Reverse on vehicles with diesel engine: with the vehicle stationary, depress the clutch pedal and select reverse gear as indicated on the gear lever.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Do not grind the clutch unnecessarily.

When operating, depress the clutch pedal completely. Do not use the pedal as a foot rest.

Caution
It is not advisable to drive with your hand resting on the selector lever.

Brakes

The brake system comprises two independent brake circuits.

If a brake circuit fails, the vehicle can still be braked using the other brake circuit. However, braking effect is achieved only when the brake pedal is depressed firmly. Considerably more force is needed for this. The braking distance is extended. Seek the assistance of your Holden Dealer before continuing your journey.

When the engine is not running, the support of the brake servo unit disappears once the brake pedal has been depressed once or twice. Braking effect is not reduced, but braking requires significantly greater force. It is especially important to bear this in mind when being towed.

Control indicator ⇨ 54.

Antilock brake system

Antilock brake system (ABS) prevents the wheels from locking.

ABS starts to regulate brake pressure as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even during hard braking.

ABS control is made apparent through a pulse in the brake pedal and the noise of the regulation process.

For optimum braking, keep the brake pedal fully depressed throughout the braking process, despite the fact that the pedal is pulsating. Do not reduce the pressure on the pedal.

Control indicator (ABS) ⇨ 54.

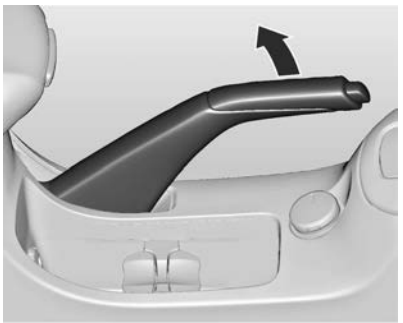
Fault

⚠ Warning

If there is a fault in the ABS, the wheels may be liable to lock due to braking that is heavier than normal. The advantages of ABS are no longer available. During hard braking, the vehicle can no longer be steered and may swerve.

Have the cause of the fault remedied by your Holden Dealer.

Parking brake



Always apply parking brake firmly without operating the release button, and apply as firmly as possible on a downhill or uphill slope.

To release the parking brake, pull the lever up slightly, press the release button and fully lower the lever.

To reduce the operating forces of the parking brake, depress the foot brake at the same time.

Control indicator (BRAKE) ⇨ 54.

Brake assist

If the brake pedal is depressed quickly and forcefully, maximum brake force is automatically applied (full braking).

Maintain steady pressure on the brake pedal for as long as full braking is required. Maximum brake force is automatically reduced when the brake pedal is released.

Ride control systems

Traction control system

Traction control system (TC) improves driving stability when necessary, regardless of the type of road surface or tyre grip, by preventing the driving wheels from spinning.

As soon as the driving wheels start to spin, engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

TC is operational as soon as the control indicator extinguishes after engine start up.

When TC is active flashes.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Control indicator ⇨ 54.

Deactivation

TC can be switched off when spinning of drive wheels is required: press button for approx. 2 seconds.

Control indicator illuminates.

TC is reactivated by pressing the button again.

TC is also reactivated the next time the ignition is switched on.

Electronic Stability Control

Electronic stability control (ESC) improves driving stability when necessary, regardless of the type of road surface or tyre grip. It also prevents the driving wheels from spinning.

As soon as the vehicle starts to swerve (understeer/oversteer), engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

ESC is operational as soon as the control indicator extinguishes after engine start up.

When ESC is active flashes.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Control indicator ⛐ ⇨ 54.

Deactivation

For very high-performance driving ESC can be deactivated: hold button ⛐ depressed for approx. 7 seconds.

Control indicator ⛐ illuminates.

ESC is reactivated by pressing the ⛐ button again. If the TC System was previously disabled, both TC and ESC are reactivated.

ESC is also reactivated the next time the ignition is switched on.

Cruise control

The cruise control can store and maintain speeds. Deviations from the stored speeds may occur when driving uphill or downhill.

For safety reasons, the cruise control cannot be activated until the foot brake has been operated once after engine startup.

With automatic transmission, only activate cruise control in automatic mode.

Control indicator ⛐ ⇨ 56.

Switching on

Press rocker switch at the upper end; control indicator illuminates white.

Activation

Accelerate to the desired speed and turn thumb wheel to **SET/-**; the current speed is stored and maintained. Control indicator illuminates green. Accelerator pedal can be released.

Vehicle speed can be increased by depressing the accelerator pedal. When the accelerator pedal is released, the previously stored speed is resumed.

Increase speed

With cruise control active, hold thumb wheel turned to **RES/+** or briefly turn to **RES/+** repeatedly; speed increases continuously or in small increments.

Alternatively accelerate to the desired speed and store by turning to **RES/+**.

Reduce speed

With cruise control active, hold thumb wheel turned to **SET/-** or briefly turn to **SET/-** repeatedly; speed decreases continuously or in small increments.

Deactivation

Press button , control indicator illuminates white. Cruise control is deactivated. The stored speed is maintained.

Automatic deactivation:

- vehicle speed below approx. 30 km/h,
- the brake pedal is depressed,
- the clutch pedal is depressed,
- selector lever in **N**,
- the Traction Control System or Electronic Stability Control is operating.

Resume stored speed

Turn thumb wheel to **RES/+** at a speed above 40 km/h. The stored speed will be obtained.

Switching off

Press rocker switch at the lower end, control indicator is off. The stored speed is deleted. Switching off the ignition also deletes the stored speed.

Object detection systems

Parking assist

(If fitted)

The parking assist makes parking easier by measuring the distance between the vehicle and rear obstacles, and giving acoustic signals. It is the driver, however, who bears full responsibility for parking manoeuvre.

The system consists of four ultrasonic parking sensors in the rear bumper.

Control indicator P⁄▲ ⇨ 54.

Note

Attached parts in the detection area cause system malfunction.

Activation

When reverse gear is engaged, the system is activated automatically.

An obstacle is indicated by acoustic warnings. The interval between the warnings becomes shorter as the vehicle gets closer to the obstacle. When the distance is less than 40 cm, the acoustic warning sounds continuously.

Deactivation

The system is deactivated automatically when

- the vehicle is driven above 10 km/h
- the vehicle is parked
- a fault in the system occurs.

Fault

In the event of a fault in the system, P⁄▲ illuminates.

Additionally if the system does not work due to temporary conditions like snow covered sensors, P⁄▲ illuminates.

Important hints for using the parking assist systems

⚠Warning

Under certain circumstances, various reflective surfaces on objects or clothing as well as external noise sources may cause the system to fail to detect obstacles.

Caution

Performance of the sensor can be reduced when sensors are covered, e.g. by ice or snow.

Performance of the parking assist systems can be reduced by a level change of the sensors.

Particular conditions apply for high vehicles (e.g. off-road vehicles, mini vans, transporters). Object identification in the upper part of the vehicle cannot be guaranteed.

Objects with a very small reflection cross section, like objects of narrow size or soft materials, may not be detected by the system.

Parking assist systems are not effective in assisting drivers in avoiding unexpected objects.

Note
Sensor could detect a nonexisting object (echo disturbance) caused by external acoustical or mechanic disturbances.

Fuel

Fuel for petrol engines

Use clean, unleaded fuel of at least 91 octane rating. High octane (premium unleaded) can be used and will provide slight improvement in engine power and torque. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel which contains abnormal fuel properties.

Caution

Use of fuel with too low an octane rating could lead to uncontrolled combustion and engine damage.

Equivalent standardised fuels with an ethanol content of max. 10% by volume may be used.

⚠Warning

Under no circumstances should you use fuel containing more than 10% ethanol. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation. These adverse effects could result in permanent damage to your vehicle and the risk of personal injury. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties.

Fuel for diesel engines

Only use commercially available diesel fuel meeting the requirements of Euro standard EN 590 to operate diesel engines. The use of biodiesel containing up to 5% fatty acid methyl ester ("FAME"), also known as "B5", is also permitted provided that the

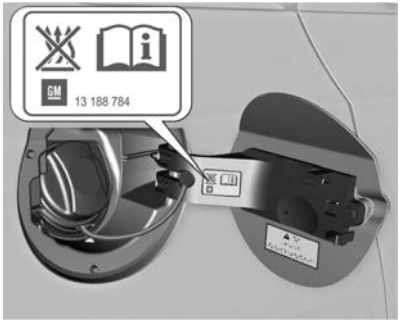
FAME complies with Euro standard EN 14214 and the resultant B5 blend complies with Euro standard EN 590.

Do not use marine diesel oils, heating oils or entirely or partially plant-based diesel fuels, such as rape seed oil or bio diesel containing more than 5 % FAME.

⚠Warning

Use only biodiesel blends with a maximum of 5% FAME and which meet Euro standard EN 590. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 5 % FAME or fuel which contains abnormal fuel properties. Using a biodiesel that does not have the certification referred to above, or has FAME content exceeding 5%, may cause serious damage to your vehicle (including engine failure). Damage attributable to the use of non-certified biodiesel is not covered by your New Vehicle Warranty. In no event will GM Holden be responsible or bear any liability for any damage or loss that may arise in connection with the use of any fuel that does not meet this specification.

Refuelling



⚠Danger

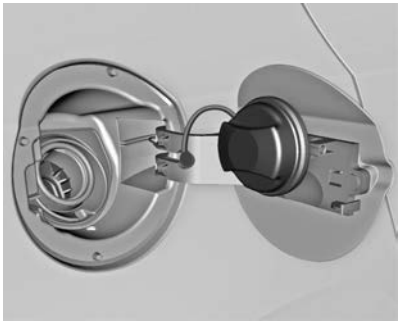
Before refuelling, switch off engine and mobile phones.

Follow the operating and safety instructions of the filling station when refuelling.

⚠ Danger
Fuel is flammable and explosive. No smoking. No naked flames or sparks. If you can smell fuel in your vehicle, have the cause of this remedied immediately by your Holden Dealer.

Fuel filler flap is located at right rear side of vehicle.

The fuel filler flap can only be opened if the vehicle is unlocked. Release the fuel filler flap by pushing the flap.



The fuel filler cap can be retained in the bracket on the fuel filler flap.

Caution
Wipe off any overflowing fuel immediately.

Fuel filler cap

Only a genuine fuel filler cap provides full functionality. Diesel-engined vehicles have special fuel filler caps.

Towing

General information

The word 'Trailer' is used throughout this section and is intended to include all types of towed vehicles, such as a caravan, boat trailer or any other special purpose trailer.

The vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a trailer. Refer to the table further on in this chapter for the mandatory equipment required for the weight you are towing. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

Trailer towing

Overloading

Never exceed the loads given for the towing equipment fitted to the vehicle. For your safety and the vehicle's durability, all mandatory equipment must be fitted. Otherwise you may void the New Vehicle Warranty, to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of the vehicle.

Maximum towing capacities (kg)

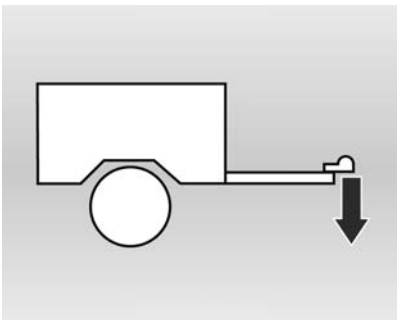
Engine	Transmission	Type	Caravan/ Trailer
Petrol (1.8L)	Manual transmission	With brake	1200
		Without brake	695
	Automatic transmission	With brake	1200
		Without brake	695
Diesel (2.0L)	Manual transmission	With brake	1200
		Without brake	750
	Automatic transmission	With brake	1200
		Without brake	750

⚠Warning
Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment to be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of such equipment may void your New Vehicle Warranty to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of your vehicle.

Towing with Electronic Stability Control (ESC)

You may hear noise from the ESC modulator when it is working. The ESC is reacting to the vehicle movement caused by the trailer, which mainly occurs during cornering. This is considered normal when towing heavier trailers.

Recommended procedure for attaching a trailer



When a trailer is hitched to the vehicle, it places a weight on the tow bar. This weight is called the 'tow ball load'.

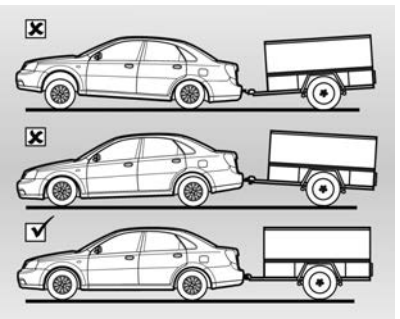
If the tow ball load is too light or too heavy, the steering and handling of the vehicle may be affected.

As a general guideline, for single axle trailers, the ball load should be approximately 10 % of the loaded trailer mass. For heavy trailers with more than one axle, the ball load should be in the range of 5 % - 10 % of the loaded trailer mass.

Note
If the tow ball load exceeds 75 kg a load distribution hitch is required. Refer to mandatory equipment in the Towing equipment table further on in this chapter.

The tow ball load can be adjusted by correctly packing the contents of the trailer. For example, by moving items forwards or backwards within the trailer so as to change the balance of the trailer.

Check the tow ball load before coupling the trailer to the towing vehicle.



If the attitude of the vehicle is compromised, adjust the vehicle and trailer load within the specifications to improve the attitude. If the vehicles attitude cannot be corrected, use a load distribution hitch.

Towing equipment

Tow load	Tow ball load	Mandatory equipment
Up to 695 kg (1.8L Petrol) Up to 750 kg (2.0L Diesel)	Less than or equal to 75 kg.	Holden 1,200 kg rated tow bar.
		Holden trailer wiring harness.
Up to 695 kg (1.8L Petrol) Up to 750 kg (2.0L Diesel)	More than 75 kg.	Holden 1,200 kg rated tow bar.
		Holden trailer wiring harness.
		Load distribution hitch.
Between 695 kg and 1,200 kg (1.8L Petrol) Between 750 kg and 1,200 kg (2.0L Diesel)	Less than or equal to 75 kg.	Holden 1,200 kg rated tow bar.
		Holden trailer wiring harness.
		Brakes on the trailer.
Between 695 kg and 1,200 kg (1.8L Petrol) Between 750 kg and 1,200 kg (2.0L Diesel)	More than 75 kg.	Load distribution hitch.
		Holden 1,200 kg rated tow bar.
		Holden trailer wiring harness.
		Brakes on the trailer.

Note

A load distribution hitch transfers load to the vehicles front wheels aiding steering and brake performance.

At no time may the maximum towing capacity exceed the maximums specified. Refer to Maximum towing capacity previously in this chapter.

At no time may the total rear axle load exceed the maximums specified. Refer to Loading the vehicle previously in this chapter.

Towing precautions

- When heavily loading your vehicle or when towing, your tyres should be inflated to the maximum recommended pressure. Refer to tyre pressure placard and information about tyre pressures ⇨ 134.
- Ensure the load distribution hitch is correctly distributing the tow ball load. Refer to Towing equipment previously in this chapter.
- Tighten the tow ball retaining nut to 140 Nm (Newton Meters) and check the torque frequently.
- Vehicles handle differently when towing. It is a good idea to make a couple of shortdistance trips with the trailer before setting off on a longer journey.
- Have your vehicle correctly maintained and serviced.
- Have the trailer maintained and serviced, with particular attention to the condition of the brakes, tyres, suspension, wheel bearings, lighting and the tow coupling.
- Use extended-arm rear view mirrors on both sides of the vehicle if necessary.
- Headlamps may need realignment after the loaded trailer has been hitched, particularly if a load distribution hitch is not used.
- Use a lower gear and the brakes, when descending steep hills.
- Do not use axle-mounted hitches as this will damage the vehicle.
- Ensure that no part of the tow bar (including the tongue or tow ball) obscures the vehicle's licence plate. If necessary, remove the tow bar tongue when it is not in use.

- If a tow bar is removed: Ensure to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.

Trailer brakes

- Trailer brakes are mandatory on trailers weighing 695 kg (1.8L Petrol), 750 kg (2.0L Diesel) and over when loaded. The brakes on the trailer must be designed to cope with the braking requirements of the trailer under all towing conditions, without adversely affecting the brakes on the vehicle.
- Consult the appropriate regulatory body in your State or Territory for the legal requirements of trailer brakes.

Fitting accessories (bull bars, driving lamps, insect screens, etc)

When fitting accessories, take care not to restrict airflow through the air conditioner condenser and the radiator, otherwise engine overheating and/or poor air conditioning performance may result.

The mass of all accessories must be considered when evaluating the vehicle's overall loaded condition.

Remember that bull bars may affect airbag operation.

Running in before towing

Holden recommends that you drive your new vehicle for at least 1,500 km before towing. If you must tow in the first 1,500 km of the vehicle's life, do not exceed 80 km/h.

The same applies if the vehicle is equipped with a new or reconditioned engine, transmission or axle.

Vehicle maintenance

More frequent vehicle maintenance is required when using the vehicle for towing. Refer to the Service/warranty booklet in the vehicle's glovebox.

Vehicle care

General Information 115
Vehicle checks 116
Bulb replacement 123
Electrical system 128
Vehicle tools 133
Wheels and tyres 134
Jump starting 143
Towing 145
Appearance care 147

General Information

Accessories and vehicle modifications

We recommend using Genuine Parts and Accessories and factory approved parts specific for your vehicle type. We cannot assess or guarantee for other products - even if they have a regulatory or otherwise granted approval.

Do not make any modifications to the electrical system, e.g. changes of electronic control units (chip tuning).

Vehicle storage

Storage for a long period of time

If the vehicle is to be stored for several months:

- Wash and wax the vehicle.
- Have the wax in the engine compartment and underbody checked.
- Clean and preserve rubber seals.
- Change engine oil.
- Drain washer fluid reservoir.
- Check coolant anti-freeze and corrosion protection.
- Adjust tyre pressure to the value specified for full load.
- Park vehicle in dry, well ventilated place. Engage first or reverse gear or set selector lever to **P**. Prevent the vehicle from rolling.
- Do not apply parking brake.
- Open bonnet, close all doors and lock the vehicle.
- Disconnect the clamp from the negative terminal of the vehicle battery. Beware that all systems are not functional, e.g. anti-theft alarm system.

Putting back into operation

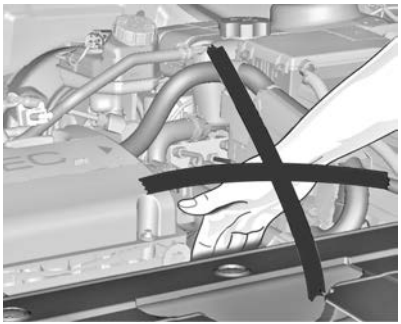
When the vehicle is to be put back into operation:

- Connect the clamp to the negative terminal of the vehicle battery. Activate the electronic of the power windows.
- Check tyre pressure.
- Fill up the washer fluid reservoir.

- Check the engine oil level.
- Check the coolant level.
- Fit the number plate if necessary.

Vehicle checks

Performing work



⚠Warning

Only perform engine compartment checks when the ignition is off.

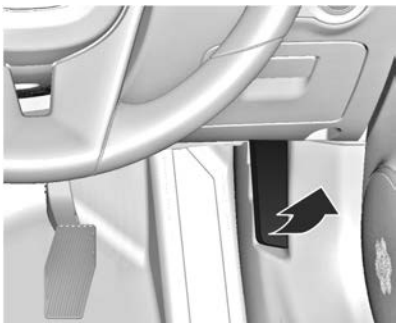
The cooling fan may start operating even if the ignition is off.

⚠Danger

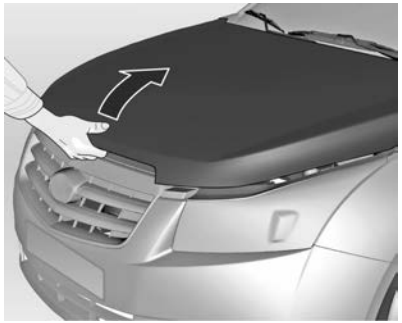
The ignition system uses extremely high voltage. Do not touch.

Bonnet

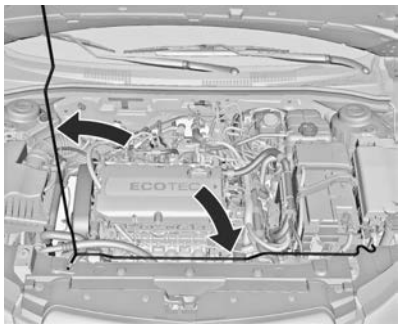
Opening



Pull the release lever and return it to its original position.



Push the safety catch to the left and open the bonnet.



Secure the bonnet support.

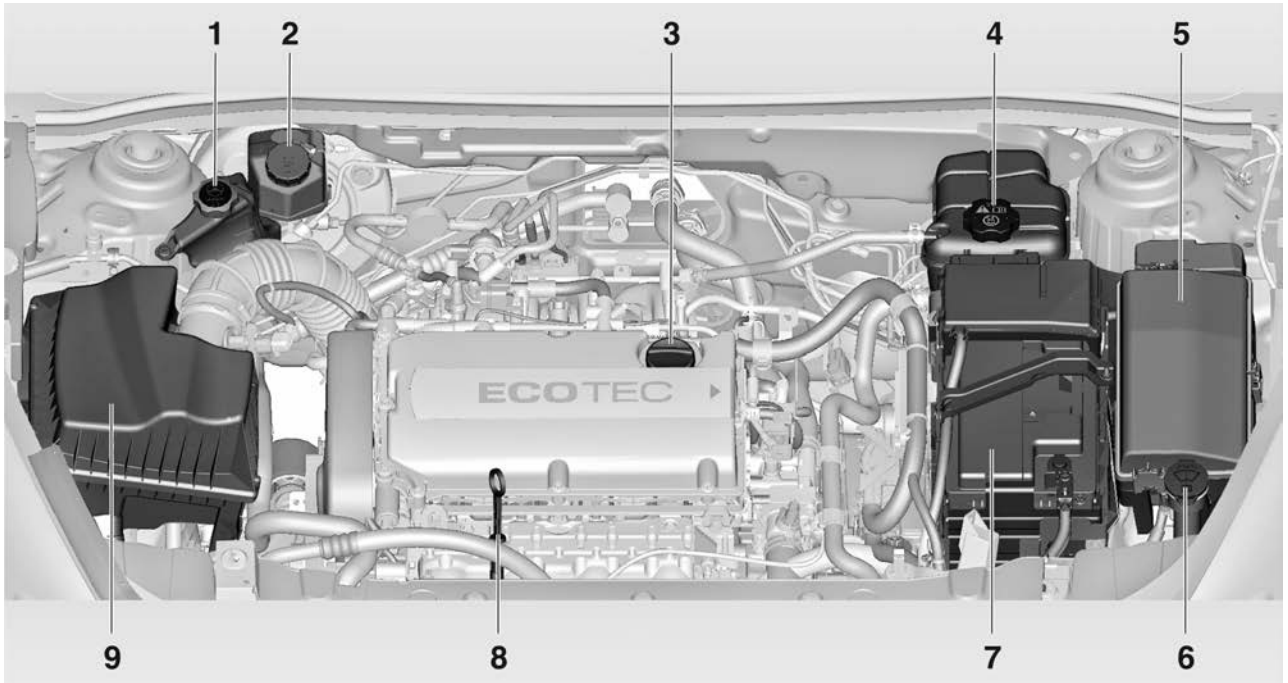
Closing

Before closing the bonnet, press the support into the holder.

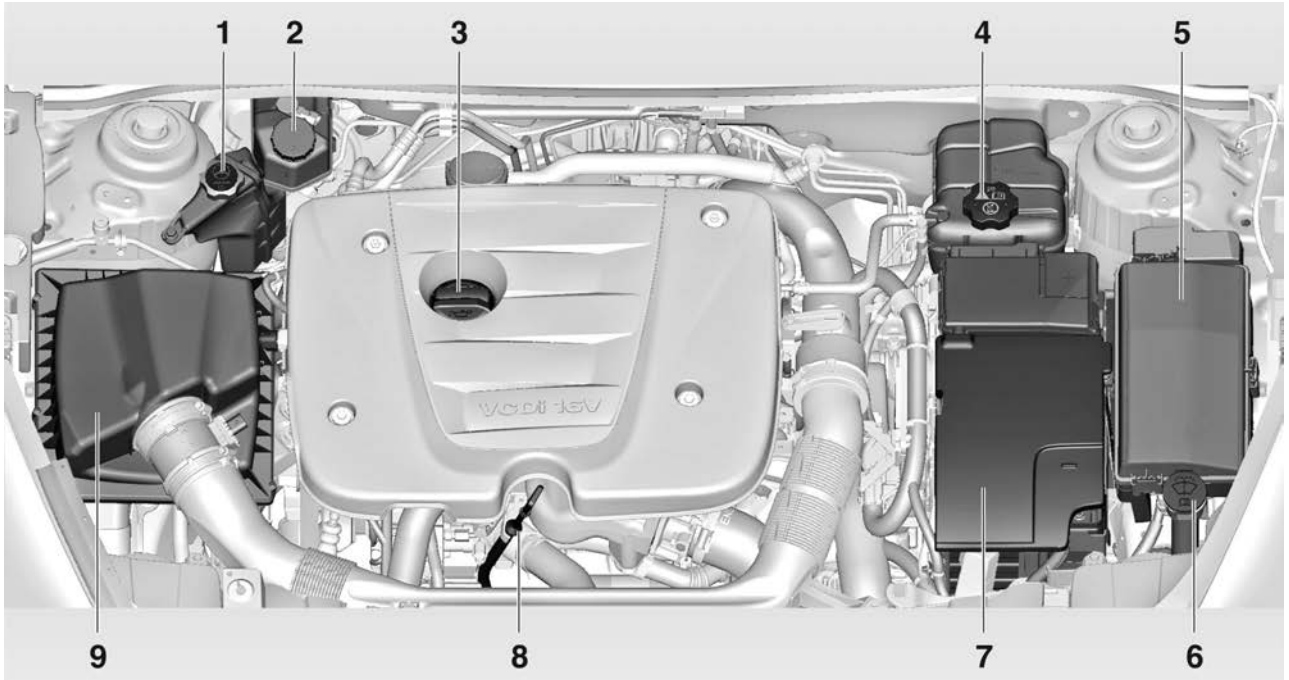
Lower the bonnet and allow it to drop into the catch. Check that the bonnet is engaged.

Engine compartment overview

Petrol engine



Diesel engine



1. Power steering fluid container ⇨ 122
2. Brake fluid container ⇨ 122
3. Engine oil cap ⇨ 120
4. Engine coolant container ⇨ 121
5. Fuse box ⇨ 130
6. Washer fluid container ⇨ 122
7. Battery ⇨ 122
8. Dipstick for engine oil level ⇨ 120
9. Engine air filter ⇨ 121

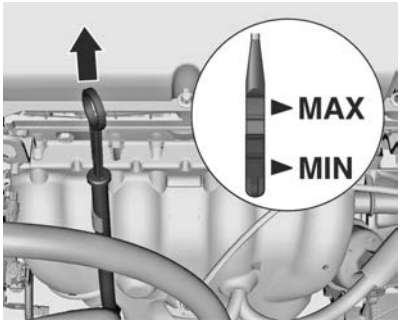
Engine oil

It is advisable to check the engine oil level manually before embarking on a long journey.

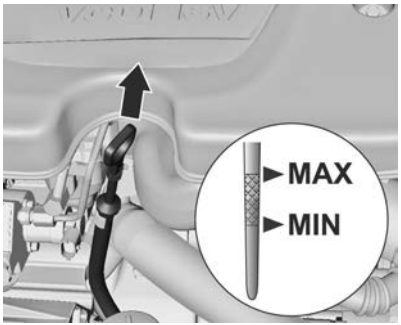
Check with the vehicle on a level surface. The engine must be at operating temperature and switched off for at least 5 minutes.

Pull out the dipstick, wipe it clean, insert it to the stop on the handle, pull out and read the engine oil level.

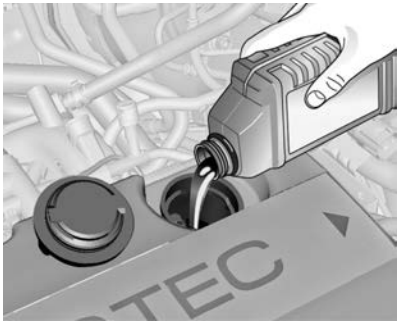
Insert dipstick to the stop on the handle and make half a turn.



Different dipsticks are used depending on engine variant.



When the engine oil level has dropped to the **MIN** mark, top up engine oil.



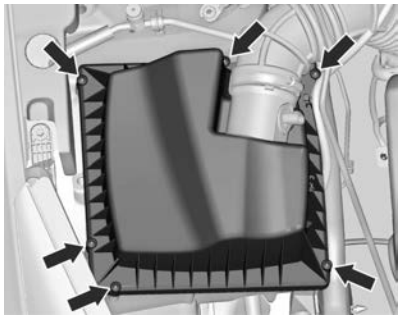
Refer to the manufacturers specifications on engine oil ⇨ 150.

The engine oil level must not exceed the **MAX** mark on the dipstick.

Caution
Overfilled engine oil must be drained or suctioned out.

Replace oil cap and tighten it.

Engine air filter



To replace engine air filter unscrew 6 screws and remove air filter housing.

Engine coolant

The coolant provides freeze protection down to approx. -28 °C.

⚠Warning

Do not spill coolant on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.

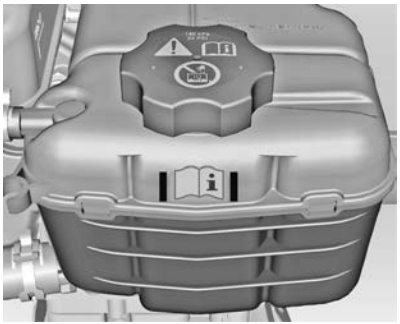
Caution

Only use approved anti-freeze.

Coolant level

Caution

Too low a coolant level can cause engine damage.



If the cooling system is cold, the coolant level should be above the filling line mark. Top up if the level is low.

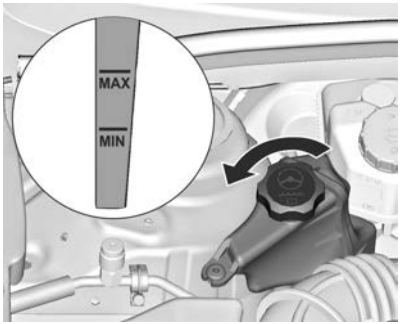
⚠Warning

Allow the engine to cool before opening the cap. Carefully open the cap, relieving the pressure slowly.

Top up with antifreeze. If no antifreeze is available, use clean tap water or distilled water. Install the cap tightly. Have the antifreeze

concentration checked and have the cause of the coolant loss remedied by your Holden Dealer.

Power steering fluid



Open the cap and remove. Wipe the dipstick dry and turn the cap in the container. Open the cap again and read the power steering fluid level.

The power steering fluid level must be between the **MIN** and the **MAX** marks.

If the fluid level is to low, seek the assistance of your Holden Dealer.

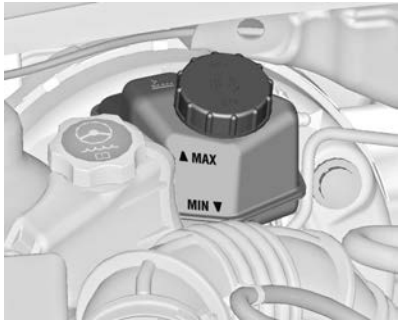
Washer fluid

Fill with clean water mixed with a suitable quantity of windscreen wash solution.

Brake fluid

⚠Warning

Brake fluid is poisonous and corrosive. Avoid contact with eyes, skin, fabrics and painted surfaces.



The brake fluid level must be between the **MIN** and the **MAX** marks.

When topping up, ensure maximum cleanliness as contamination of the brake fluid can lead to brake system malfunctions. Have the cause of the loss of brake fluid remedied by your Holden Dealer.

Only use high-performance brake fluid approved for the vehicle, Brake and clutch fluid ⇨ 150.

Battery

The vehicle battery is maintenance-free.

Laying up the vehicle for more than 4 weeks can lead to battery discharge. Disconnect the clamp from the negative terminal of the vehicle battery.

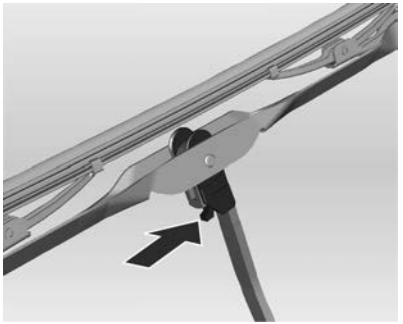
Ensure the ignition is switched off before connecting or disconnecting the vehicle battery.

Battery discharge protection ⇨ 68.

Diesel fuel system bleeding

If the tank has been run dry, the diesel fuel system must be bled. Switch on the ignition three times for 15 seconds at a time. Then start the engine for a maximum of 40 seconds. Repeat this process after no less than 5 seconds. If the engine fails to start, seek the assistance of your Holden Dealer.

Wiper blade replacement



Lift wiper arm. Move release lever and detach wiper blade.

Bulb replacement

Switch off the ignition and switch off the relevant switch or close the doors.

Only hold a new bulb at the base! Do not touch the bulb glass with bare hands.

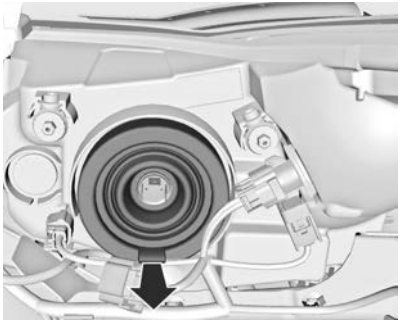
Use only the same bulb type for replacement.

Replace headlight bulbs from within the engine compartment.

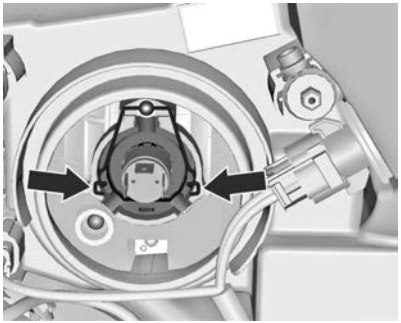
Halogen headlights

Low beam and high beam

1. Detach plug connector from bulb.



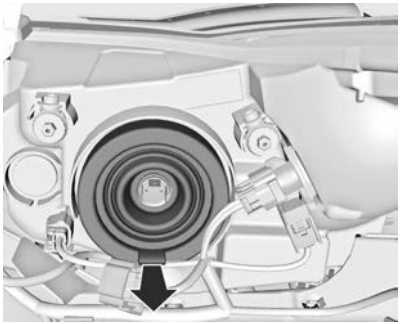
2. Remove protective cover.



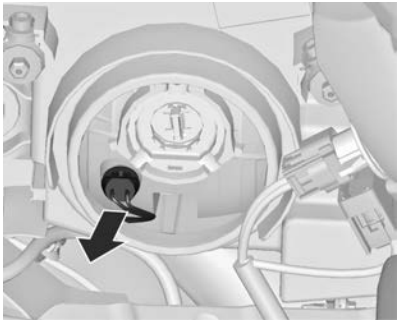
3. Press spring clip, disengage and swivel it upward.
4. Remove bulb from reflector housing.
5. When fitting a new bulb, engage the lugs in the recesses on the reflector.
6. Engage the spring clip.
7. Place headlamp protective cover in position and close.
8. Plug connector onto bulb.

Parking lights

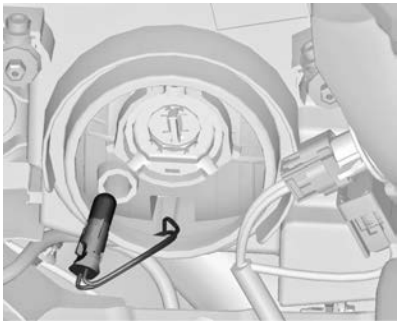
1. Detach plug connector from bulb.



2. Remove protective cover.



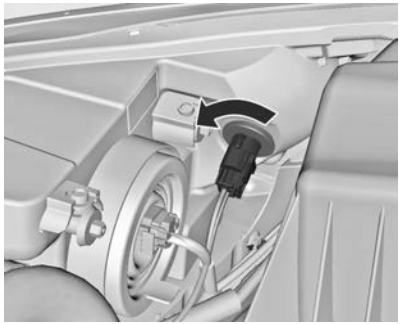
3. Remove side light bulb holder from reflector.



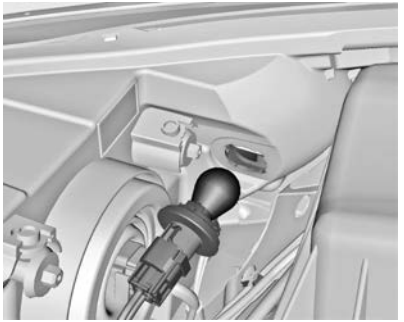
4. Remove bulb from socket.
5. Insert new bulb.

6. Insert holder in reflector.
7. Place headlamp protective cover in position and close.
8. Plug connector onto bulb.

Front turn signal lights



1. Rotate bulb holder anti-clockwise and disengage.

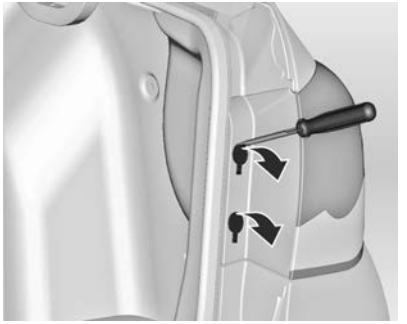


2. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
3. Insert bulb holder in reflector, rotate clockwise to engage.

Fog lights

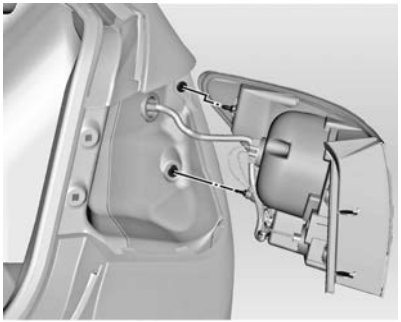
Have bulbs replaced by your Holden Dealer.

Tail lights

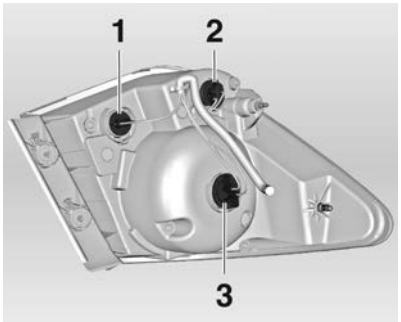


1. Open both covers.

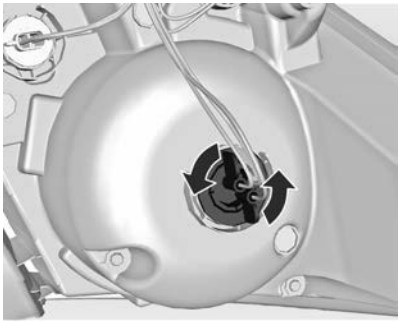
2. Unscrew both screws.



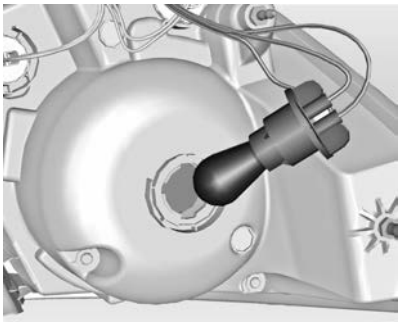
3. Remove tail light assembly. Take care that the cable duct remains in position.



4. Reverse light (**1**)
   Turn signal light (**2**)
   Tail light/brake light (**3**)



5. Rotate bulb holder anti-clockwise.

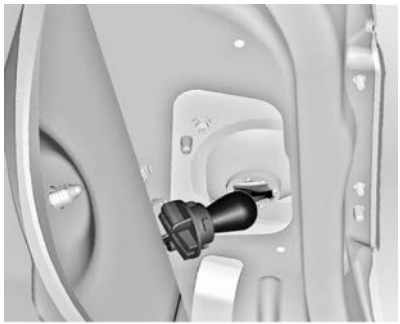


6. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
7. Insert bulb holder into the tail light assembly and screw into place. Connect wiring plug. Install tail light assembly in body and tighten screws. Close covers and engage.
8. Switch on ignition, operate and check all lights.

Tail lights in boot lid

1. Remove the boot lid panelling.

2. Rotate bulb holder anti-clockwise.

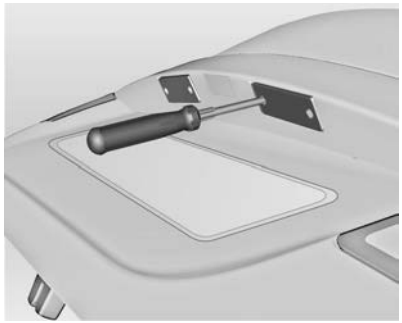


3. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
4. Insert bulb holder into boot. Refit the inner panelling to boot lid.
5. Switch on ignition, operate and check the lights.

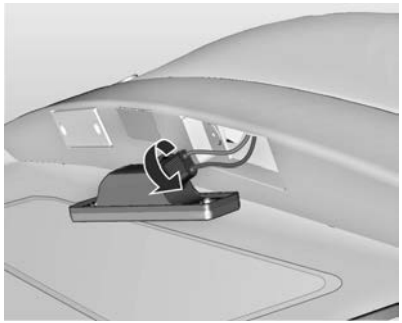
Side turn signal lights

Have bulbs replaced by your Holden Dealer.

Number plate light



1. Unscrew both screws.



2. Remove bulb housing downward, taking care not to pull on the cable.

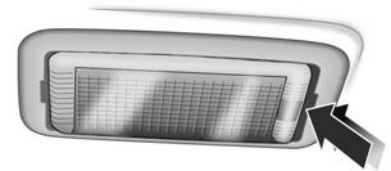
   Rotate bulb holder anti-clockwise to disengage.
3. Remove bulb from holder and renew bulb.
4. Insert bulb holder in bulb housing and rotate clockwise.
5. Insert bulb housing and secure using a screwdriver.

Interior lights

Courtesy light, reading lights

Have bulbs replaced by your Holden Dealer.

Boot compartment light



1. Prise the lamp out with a screwdriver.

2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.
4. Install lamp.

Instrument panel illumination

Have bulbs replaced by your Holden Dealer.

Electrical system

Fuses

Data on the replacement fuse must match the data on the defective fuse.

There are two fuse boxes in the vehicle:

- in the front left of the engine compartment,
- in the interior behind the glovebox.

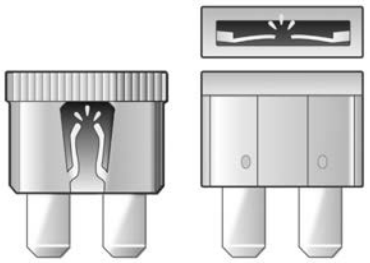
In a box above the positive terminal of the battery are some main fuses. If necessary have them changed by your Holden Dealer.

Before replacing a fuse, turn off the respective switch and the ignition.

A blown fuse can be recognised by its melted wire. Do not replace the fuse until the cause of the fault has been remedied.

Some circuits are protected by several fuses.

Fuses may also be inserted into a blank cavity, where there is no circuit.



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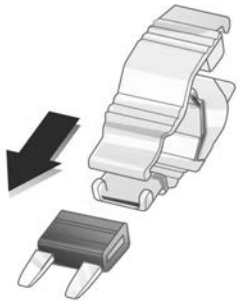
30041

Fuse extractor

A fuse extractor may be located in the fuse box in the engine compartment.



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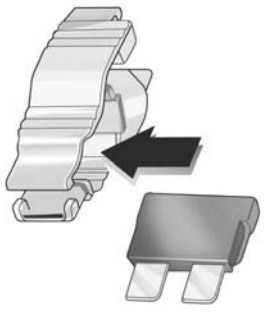

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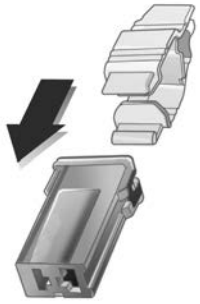
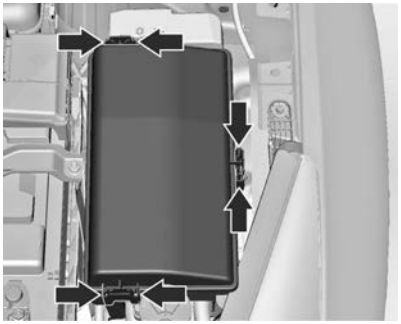


30044

Place the fuse extractor on the various types of fuse from the top or side, and withdraw fuse.

Engine compartment fuse box



The fuse box is in the front left of the engine compartment.

Disengage the cover, lift it upwards and remove.

No.	Circuit
1	Transmission control module
2	Engine control module
3	-
4	Canister vent sol
5	Ignition
6	Front wipers
7	-
8	Fuel injection
9	Fuel injection, ignition system
10	Engine control module
11	Lambda sensor
12	Starter solenoid
13	Canister vent sol
14	-
15	-
16	Ignition
17	Ignition, Airbag

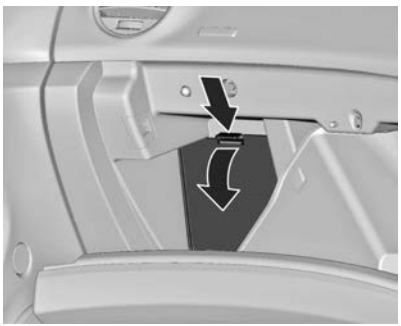
No.	Circuit
18	-
19	Ignition, Fuel system control module
20	Fuel pump
21	Rear power windows
22	-
23	-
24	Front power windows
25	Electronic vacuum pump
26	ABS
27	-
28	Heated rear window
29	-
30	ABS
31	Body control module
32	Body control module
33	Front seat heating

No.	Circuit
34	-
35	Infotainment system, Amplifier
36	-
37	High beam, right side
38	High beam, left side
39	-
40	-
41	-
42	Cooling fan
43	-
44	-
45	Cooling fan
46	Cooling fan
47	Lambda sensor
48	Fog lights
49	-
50	-

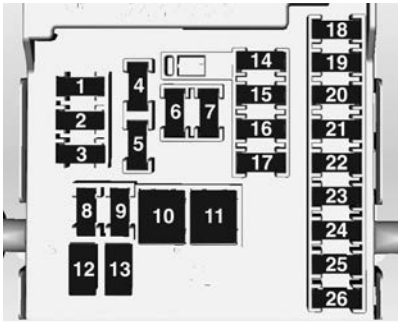
No.	Circuit
51	Horn
52	Instrument panel
53	Electrochromatic mirror
54	Light switch, Light control
55	Folding Mirrors
56	Windscreen washer
57	Steering column lock
58	-
59	Diesel fuel heating
60	Mirror heating
61	Mirror heating
62	Air condition
63	Rear window sensor
64	-
65	Rear fog lamp
66	-
67	Fuel system control module

No.	Circuit
68	-
69	Battery voltage sensor
70	Rain sensor
71	-

Instrument panel fuse box



The fuse box is located behind a cover in the glovebox. Open the glovebox and remove the cover.



No.	Circuit
1	Infotainment system, handsfree phone
2	-
3	Body control unit
4	Infotainment system
5	Info display, parking assist, power sounder
6	Cigarette lighter
7	Power outlet
8	Body control module
9	Body control module
10	Body control module
11	Interior fan
12	-
13	Heated seats
14	Diagnostic connector
15	Airbag
16	Central locking system
17	Air condition system
18	-
19	Shift lever
20	-
21	Instrument
22	Ignition
23	Body control module
24	Body control module

No.	Circuit
25	Steering column lock
26	-

Vehicle tools

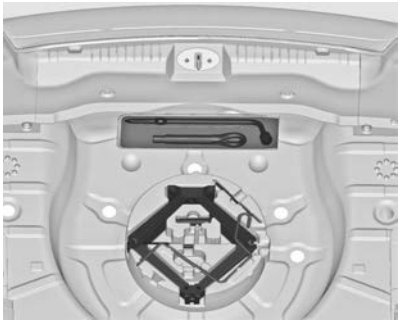
Tools

Vehicles with tyre repair kit

The tools and tyre repair kit are in a storage compartment below the floor cover in the boot.

Vehicles with spare wheel

The jack and the tools are in a stowage compartment in the boot below the spare wheel. Spare wheel ⇨ 142.



Wheels and tyres

Tyre condition, wheel condition

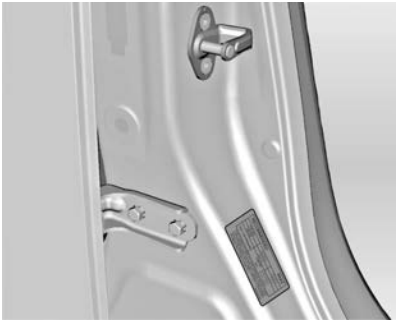
Drive over edges slowly and at right angles if possible. Driving over sharp edges can cause tyre and wheel damage. Do not trap tyres on the kerb when parking.

Regularly check the wheels and tyres for damage. Seek the assistance from your Holden Dealer in the event of damage or unusual tyre wear.

Tyre pressure

Check the pressure of cold tyres at least every 14 days and before any long journey. Do not forget the spare wheel.

Unscrew the valve cap.



Refer to the tyre pressure placard on the front right door frame.

The tyre pressure data refers to cold tyres.

Always inflate the spare tyre to the pressure specified for full load.

Incorrect tyre pressures will impair safety, vehicle handling, comfort and fuel economy and will increase tyre wear.

⚠Warning

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blow-out at high speeds.

Tread depth

Check tread depth at regular intervals.

Tyres should be replaced for safety reasons when

1. The tyres are worn to the point where the tread indicators as shown, appear or the cord or fabric is showing.
2. The tread or side wall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which cannot be repaired because of the size or location of the damage. If in doubt about the extent of the damage to the tyre, have it removed from the wheel and examined by a tyre specialist.

The legally permissible minimum tread depth (1.6 mm) has been reached when the tread has worn down as far as one of the tread wear indicators (TWI). Their position is indicated by markings on the sidewall.

If there is more wear at the front than the rear, swap round front wheels and rear wheels. Ensure that the direction of rotation of the wheels is the same as before.

Tyres age, even if they are not used. We recommend tyre replacement every 6 years.

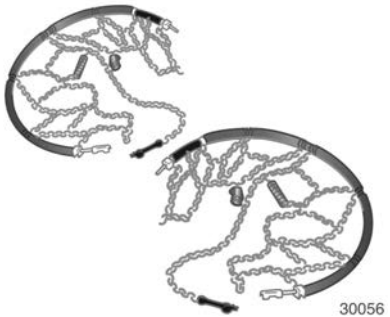
Wheel covers

Wheel covers and tyres that are factory approved for the respective vehicle and comply with all of the relevant wheel and tyre combination requirements must be used.

⚠Warning

Use of unsuitable tyres or wheel covers could lead to sudden pressure loss and thereby accidents.

Tyre chains



Tyre chains are only permitted on the front wheels.

Always use fine mesh chains that add no more than 10 mm to the tyre tread and the inboard sides (including chain lock).

⚠Warning

Damage may lead to tyre blowout.

Tyre repair kit

(If fitted)

Minor damage to the tyre tread or sidewall can be repaired with the tyre repair kit.

Do not remove foreign bodies from the tyres.

Tyre damage exceeding 4 mm or that is at tyre's side wall near the rim cannot be repaired with the tyre repair kit.

⚠Warning

Do not drive faster than 80 km/h.

Do not use for a lengthy period.

Steering and handling may be affected.

If you have a flat tyre:

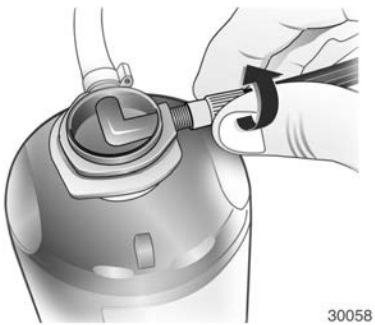
Apply the parking brake and engage first gear, reverse gear or **P**.

The tyre repair kit is in a compartment under the floor cover in the boot.

1. Take the tyre repair kit from the compartment.
2. Remove the compressor.

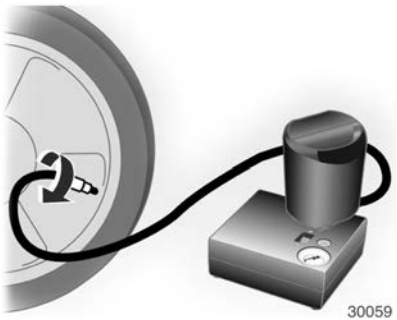
30057

3. Remove the electrical connection cable and air hose from the stowage compartments on the underside of the compressor.


30058

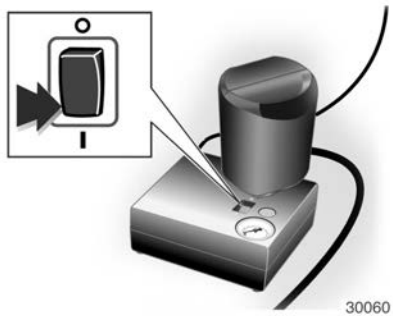
4. Screw the compressor air hose to the connection on the sealant bottle.
5. Fit the sealant bottle into the retainer on the compressor.

   Set the compressor near the tyre in such a way that the sealant bottle is upright.


30059

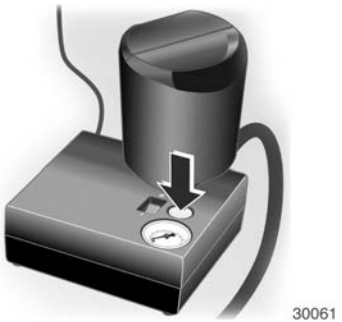
6. Unscrew valve cap from defective tyre.
7. Screw the filler hose to the tyre valve.
8. The switch on the compressor must be set to O.
9. Connect the compressor plug to the accessory socket at the rear of the console.

   To avoid discharging the battery, we recommend running the engine.


30060

10. Set the rocker switch on the compressor to I. The tyre is filled with sealant.
11. The compressor pressure gauge briefly indicates up to 90 PSI/620 kPa whilst the sealant bottle is emptying (approx. 30 seconds). Then the pressure starts to drop.

12. All of the sealant is pumped into the tyre. Then the tyre is inflated.
13. The recommended tyre pressure should be obtained within 10 minutes. Tyre pressure ⇨ 134. When the correct pressure is obtained, switch off the compressor.


30061

If the recommended tyre pressure is not obtained within 10 minutes, remove the tyre repair kit. Move the vehicle one tyre rotation. Reattach the tyre repair kit and continue the filling procedure for 10 minutes.

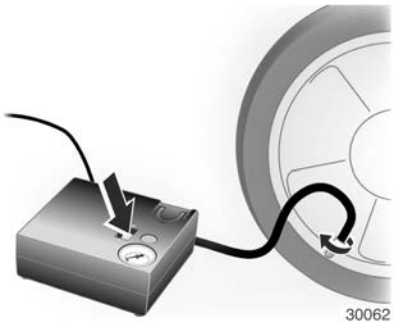
⚠Warning

If the recommended pressure cannot be reached after approximately 15 minutes, the vehicle should not be driven. The tyre is too severely damaged and the tyre sealant and air compressor kit cannot inflate the tyre. Disconnect and stow the tyre sealant and air compressor kit back in their original location. Contact you Holden Dealer.

Drain excess tyre pressure with the button over the pressure indicator.

Do not run the compressor longer than 10 minutes.

14. Detach the tyre repair kit. Push catch on bracket to remove sealant bottle from bracket. Screw tyre inflation hose to free connection of sealant bottle. This prevents sealant from escaping. Stow tyre repair kit in load compartment.
15. Remove any excess sealant using a cloth.
16. Take the label indicating maximum permitted speed from the sealant bottle and affix in the driver's field of view.
17. Continue driving immediately so that sealant is evenly distributed in the tyre. After driving approx. 10 km (but no more than 10 minutes), stop and check tyre pressure. Screw compressor air hose directly onto tyre valve and compressor when doing this.


30062

If tyre pressure is more than 20 PSI/138 kPa, set it to the

correct value. Repeat the procedure until there is no more loss of pressure.

If the tyre pressure has fallen below 20 PSI/138 kPa, the vehicle must not be used. Seek the assistance of your Holden Dealer.

18. Stow away tyre repair kit in load compartment.

Note

The driving comfort of the repaired tyre is severely affected, therefore have this tyre replaced.

If unusual noise is heard or the compressor becomes hot, turn compressor off for at least 30 minutes.

The built-in safety valve opens at a pressure of 100 PSI/690 kPa.

Note the expiry date of the kit. After this date its sealing capability is not longer guaranteed. Pay attention to storage information on sealant bottle.

Replace the used sealant bottle. Dispose of the bottle as prescribed by applicable laws.

The compressor and sealant can be used from approx. -30 °C.

The adapters supplied can be used to pump up other items e.g. footballs, air mattresses, inflatable dinghies etc. They are located on the underside of the compressor. To remove, screw on compressor air hose and withdraw adapter.

Wheel changing

Some vehicles are equipped with a tyre repair kit instead of a spare wheel ⇨ 136.

⚠Warning

All passengers must be out of the vehicle when it is being jacked.

Only jack the vehicle on hard, level surfaces.

Ensure moving parts of the jack are adequately lubricated before use.

Use the jack only at the designated lifting points. Use in other locations may result in the vehicle falling off the jack, or damage to the vehicle.

If using a jack (or hoist) other than the jack supplied with the vehicle, refer to following pages on in this chapter for the correct lifting positions.

Do not start or run the engine while the vehicle is supported by the jack.

Use the jack only for lifting the vehicle when changing wheels.

Do not get under a vehicle supported only by a jack; use vehicle support stands.

Vehicles with alloy wheels may have a steel spare wheel. Drive carefully and do not exceed 80 km/h when a combination of alloy and steel wheels are fitted on the vehicle. Although the spare tyre was fully inflated when the vehicle was new, it can loose air over time. Check the inflation pressure regularly. After installing the spare wheel on the vehicle, stop as soon as possible to check the inflation pressure is correct. Have the flat tyre repaired or replaced and installed back on the vehicle as soon as possible.

Make the following preparations and observe the following information:

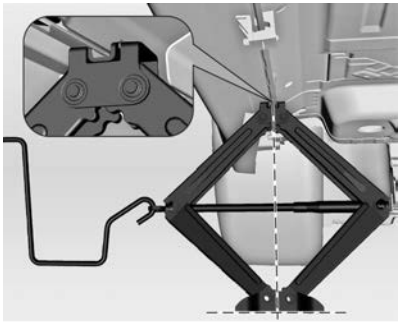
- Park the vehicle on a level, firm and non-skid surface. The front wheels must be in the straight-ahead position.
- Apply the parking brake and engage first gear, reverse gear or **P**.
- Remove the spare wheel and tools from inside the boot. The tools are located in the storage compartment underneath the spare wheel ⇨ 142.
- Never change more than one wheel at once.
- Use the jack only to change wheels in case of puncture.
- If the ground on which the vehicle is standing is soft, a solid board (max. 1 cm thick) should be placed under the jack.
- No people or animals may be in the vehicle when it is jacked-up.
- Never crawl under a jacked-up vehicle.
- Do not start the vehicle when it is raised on the jack.
- Clean wheel nuts and thread before mounting the wheel.

1. Disengage wheel nut caps with a screwdriver and remove. Pull off the wheel cover with the hook. Vehicle tools ⇨ 133.

   Alloy wheels: Disengage wheel nut caps with a screwdriver and remove. To protect the wheel, place a soft cloth between the screwdriver and the alloy wheel.

2. Locate the wheel wrench and fold out. Install ensuring that it locates securely and loosen each wheel nut by half a turn.

3. Ensure the jack is positioned correctly with the vehicle jacking points.



4. Set the jack to the necessary height before positioning it directly below the jacking point in a manner that prevents it from slipping.

Attach jack handle and with the jack correctly aligned rotate handle until wheel is clear of the ground.

5. Unscrew the wheel nuts.
6. Change the wheel.
7. Screw on the wheel nuts.
8. Lower vehicle.
9. Install the wheel wrench ensuring that it locates securely and tighten each nut in a crosswise sequence.
10. Align the valve hole in the wheel cover with the tyre valve before installing.

    Install wheel nut caps.
11. Stow the replaced wheel ⇨ 142 and the vehicle tools ⇨ 133.
12. Check the tyre pressure of the installed tyre and also the wheel nut torque as soon as possible.

Have the defective tyre renewed or repaired.

⚠Warning

As soon as possible after changing a wheel, you should have the wheels tightened with a torque of 150 Newton metre and have the wheel balanced on the vehicle. Wheel bolts should be tightened evenly to the correct torque in a crisscross pattern while the vehicle is on the ground. Wheel bolts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving.

Spare wheel

The spare wheel has a steel rim.

The spare wheel is located in the boot beneath the floor covering. It is secured in the recess with a wing nut.

The spare wheel well is not designed for all permitted tyre sizes. If a wheel wider than the spare must be stowed in the spare wheel well after changing wheels, the floor cover can be placed on the projecting wheel.

Directional tyres

Fit directional tyres such that they roll in the direction of travel. The rolling direction is indicated by a symbol (e.g. an arrow) on the sidewall.

The following applies to tyres fitted opposing the rolling direction:

- Driveability may be affected. Have the defective tyre renewed or repaired as soon as possible.
- Do not drive faster than 80 km/h.
- Drive particularly carefully on wet and snow-covered road surfaces.

Jump starting

Do not start with quick charger.

A vehicle with a discharged battery can be started using jump leads and the battery of another vehicle.

⚠Warning

Be extremely careful when starting with jump leads. Any deviation from the following instructions can lead to injuries or damage caused by battery explosion or damage to the electrical systems of both vehicles.

⚠Warning

Avoid contact with eyes, skin, fabrics and painted surfaces. The fluid contains sulphuric acid which can cause injuries and damage in the event of direct contact.

⚠Warning

Never expose the battery to naked flames or sparks.

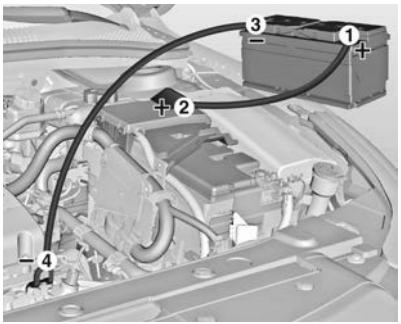
Wear eye protection and protective clothing when handling a battery.

Do not lean over the battery during jump starting.

Do not allow the terminals of one lead to touch those of the other lead.

- A discharged battery can already freeze at temperatures of 0 °C. Defrost the frozen battery before connecting jump leads.
- Use a booster battery with the same voltage (12 volts). Its capacity (Ah) must not be much less than that of the discharged battery.
- Use jump leads with insulated terminals and a cross section of at least 16 mm^2 (25 mm^2 for diesel engines).
- Do not disconnect the discharged battery from the vehicle.

- Switch off all unnecessary electrical consumers.
- The vehicles must not come into contact with each other during the jump starting process.
- Apply the parking brake, transmission in neutral, automatic transmission in **P**.



Lead connection order:

1. Connect the red lead to the positive terminal of the booster battery.
2. Connect the other end of the red lead to the positive terminal of the discharged battery.
3. Connect the black lead to the negative terminal of the booster battery.
4. Connect the other end of the black lead to a vehicle grounding point, such as the engine block or an engine mounting bolt. Connect as far away from the discharged battery as possible.

Route the leads so that they cannot catch on rotating parts in the engine compartment.

To start the engine:

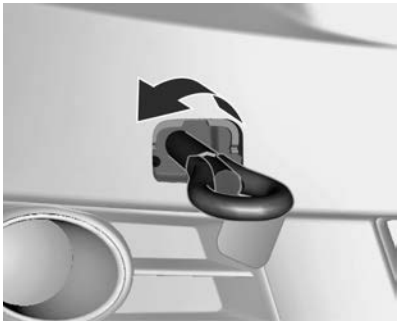
1. Start the engine of the vehicle providing the jump.
2. After 5 minutes, start the other engine. Start attempts should be made for no longer than 15 seconds at an interval of 1 minute.
3. Allow both engines to idle for approx. 3 minutes with the leads connected.
4. Switch on electrical consumers (e.g. headlights, heated rear window) of the vehicle receiving the jump start.
5. Reverse above sequence exactly when removing leads.

Towing

Towing the vehicle

Disengage cap at bottom of front fascia and remove downwards.

The towing eye is stowed with the vehicle tools ⇨ 133.



Screw in the towing eye as far as it will go until it stops in a horizontal position.

Attach a tow rope to the towing eye.

The towing eye must only be used for towing and not for recovering the vehicle.

Switch on ignition to release steering column lock and to permit operation of brake lights, horn and windscreen wipers.

Transmission in neutral.

Caution
Drive slowly. Excessive force can damage the vehicle.

When the engine is not running, considerably more force is needed to brake and steer.

To prevent the entry of exhaust fumes from the towing vehicle, switch on the air recirculation and close the windows.

Vehicles with automatic transmission: The vehicle must be towed facing forwards, not faster than 80 km/h nor further than 100 km. In all other cases and when the transmission is defective, the front axle must be raised off the ground.

Seek the assistance of your Holden Dealer.

After towing, unscrew the towing eye.

Insert cap below and close cap.

The best method is to have the vehicle transported using a recovery vehicle.

Towing another vehicle

Disengage cap at bottom of rear fascia and remove downwards.

The towing eye is stowed with the vehicle tools ⇨ 133.

Screw in the towing eye as far as it will go until it stops in a horizontal position.

The lashing eye at the rear underneath the vehicle must never be used as a towing eye.

Attach a tow rope to the towing eye.

The towing eye must only be used for towing and not for recovering a vehicle.

Caution
Drive slowly. Excessive force can damage the vehicle.

After towing, unscrew the towing eye.

Insert cap below and close cap.

Appearance care

Exterior care

Washing

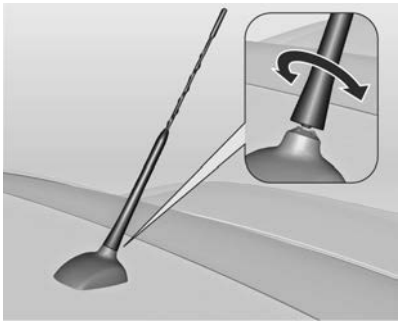
The paintwork of your vehicle is exposed to environmental influences. Wash and wax your vehicle regularly. When using automatic vehicle washes, select a programme that includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage. Failure to do so may result in permanent damage, particularly in hot weather conditions.

Road bloom is a gradual build up of road and environmental grime. This should be removed with a paint cleaner product on an annual basis, in addition to normal washing.

If using a vehicle wash, comply with the vehicle wash manufacturer's instructions. Never use an automatic wash that requires anything touching the paint (other than water).The windscreen wipers and rear window wiper must be switched off.

Remove antenna and external accessories such as roof racks etc.



To remove the roof antenna, rotate it anti-clockwise. To install the roof antenna, rotate it clockwise.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet as well as the areas they cover.

Have the door hinges of all doors greased by your Holden Dealer.

⚠Warning

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and chamois off the vehicle. Rinse leather frequently. Use separate leathers for painted and glass surfaces: remnants of wax on the windows will impair vision.

Do not use hard objects to remove spots of tar. Use tar removal spray on painted surfaces.

Exterior lights

Headlight and other light covers are made of plastic. Do not use any abrasive, solvent based cleaners or caustic agents and do not dry-clean them.

Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads).

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

When cleaning the rear window, make sure the heating element inside is not damaged.

Clean smearing wiper blades with a soft cloth and window cleaner.

Wheels and tyres

Do not use high-pressure jet cleaners.

Clean rims with a pH-neutral wheel cleaner.

Rims are painted and can be treated with the same agents as the body.

Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms. Have more extensive damage or rust areas repaired by your Holden Dealer.

Underbody

Some areas of the vehicle underbody have a PVC undercoating while other critical areas have a durable protective wax coating.

After the underbody is washed, check the underbody and have it waxed if necessary.

Bitumen/rubber materials could damage the PVC coating. Have underbody work carried out by your Holden Dealer.

Interior care

Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

The instrument panel should only be cleaned using a soft damp cloth.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clean seat belts with lukewarm water or interior cleaner.

Caution
Close Velcro fasteners as open Velcro fasteners on clothing could damage seat upholstery.

Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner as used to clean the body. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high-pressure jet cleaners.

Service and maintenance

General information 149
Recommended fluids, lubricants and parts 150

General information

Service information

In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified.

See your Service booklet for the service schedules and for more information.

Engine oil life system

(Diesel engine only)

This vehicle has a computer system that lets you know when to change the engine oil and filter. How frequently you have to change the oil depends on your driving patterns, engine RPM and engine temperature. When the system has calculated that oil life has been diminished, it will indicate that an oil change is necessary by displaying a vehicle message **CodE 82** in the Driver Information Centre (DIC) ⇨ 58.

When the change engine oil soon message displays in the DIC, have the engine oil and filter changed as soon as possible within the next 1,000 km. It is possible that, if you are driving under the best conditions, the oil life system may not indicate that an oil change is necessary for over a year. However, your engine oil and filter must be changed at least once every year in accordance with the Scheduled Maintenance outlined in your Service booklet.

Recommended fluids, lubricants and parts

Recommended fluids and lubricants

Only use products that have been tested and approved. Damage resulting from the use of non-approved materials will not be covered by the warranty.

⚠Warning

Operating materials are hazardous and could be poisonous. Handle with care. Pay attention to information given on the containers.

Engine oil

Engine oil is identified by its quality and also its viscosity.

Topping up engine oil

Engine oils of different manufacturers and brands can be mixed as long as they comply with the required engine oil (quality and viscosity).

If engine oil of the required quality is not available, a maximum of 1 litre of ACEA A3/B4 or C3 grade may be used (only once between each oil change). The viscosity should be of the correct rating.

Use of ACEA A1/B1 and A5/B5 engine oil is expressly forbidden, since they can cause long-term engine damage under certain operating conditions.

Engine oil additives

The use of engine oil additives could cause damage and invalidate the warranty.

Engine oil viscosity

Use only engine oil viscosities SAE 0W-30, 0W-40, 5W-30 or 5W-40.

The SAE viscosity rating defines the ability of an oil to flow. When cold, oil is more viscous than when hot.

Multigrade oil is indicated by two figures. The first figure, followed by a W, indicates low temperature viscosity and the second figure the high temperature viscosity.

Coolant and antifreeze

Use only silicate-free long life coolant (LLC) antifreeze.

The system is factory filled with coolant designed for frost protection down to approx. -28 °C. This concentration should be maintained all year round.

Coolant additives intended to give additional corrosion protection or seal against minor leaks can cause function problems. Liability for consequences resulting from the use of coolant additives will be rejected.

Brake and clutch fluid

Only use DOT4 brake fluid.

Over time, brake fluid absorbs moisture which will reduce braking effectiveness. The brake fluid should therefore be replaced at the specified interval.

Brake fluid should be stored in a sealed container to avoid water absorption.

Ensure brake fluid does not become contaminated.

Power steering fluid

Only use Dexron VI fluid.

Automatic transmission fluid

Only use Dexron VI fluid.

Recommended fluids and lubricants

Manufacturer's specifications

Usage	Fluid/Lubricant
Engine Oil specification	ACEA-A3/B3 grade 0W-30/40 or 5W-30/40 (Petrol engine) ACEA-C3 grade 0W-40 or 5W-40 (Diesel engine)
Coolant specification	50% clean water and 50% Dexcool anti-freeze coolant, conforming to specification number GM6277M
Brake & clutch fluid	Heavy duty brake fluid DOT 4
Power steering fluid	Dexron - VI Auto trans fluid
Automatic transmission fluid	Dexron - VI Auto trans fluid
Manual transmission fluid	SAE 75W-90 Manual trans gear oil

Technical data

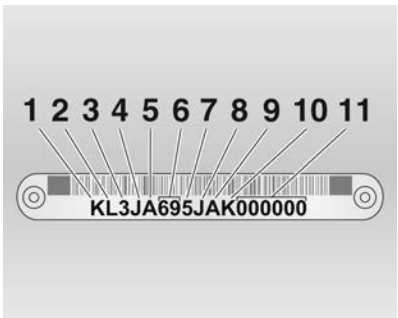
Vehicle identification 152
Vehicle data 155

Vehicle identification

Vehicle Identification Number

The Vehicle Identification Number is visible through the windscreen.

A further label is located in the vehicle floor on the right-hand side under a cover between the front door and seat.



Information contained in the Vehicle Identification Number:

1 = Nation of origin
2 = Manufacturer
3 = Car type
4 = Model
5 = Transaxle type

A: front wheel drive, automatic transmission

B: front wheel drive, manual transmission

6 = Body type

69: four door sedan

7 = Engine type

5: Z18XER

R: Z20DHM

8 = Purpose
9 = Model year

A: 2010

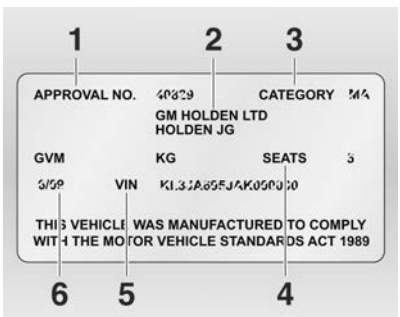
10 = Assembly plant

K: Kunsan

11 = Production sequence number

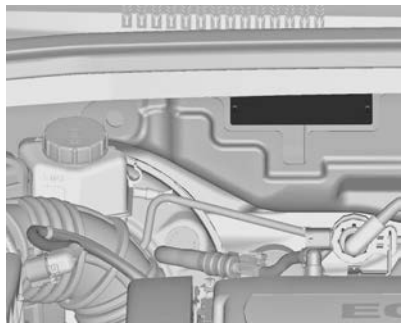
Identification plate

An identification label is located on the front left door frame.

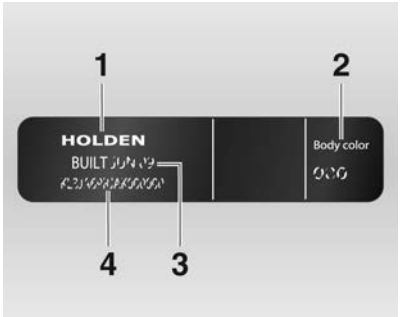


Information on identification label:

1 = Approval number
2 = Manufacturer
3 = Category
4 = Number of seats
5 = Vehicle identification number
6 = Build date



A further identification plate is located under the hood on the dash panel.

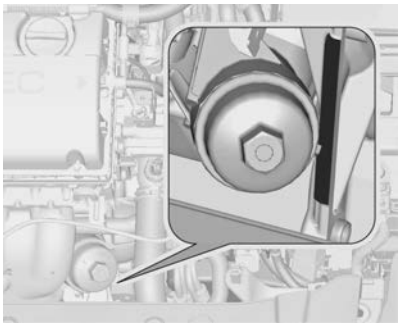


Information on identification plate:

1 = Manufacturer
2 = Body color
3 = Build date
4 = Vehicle identification number

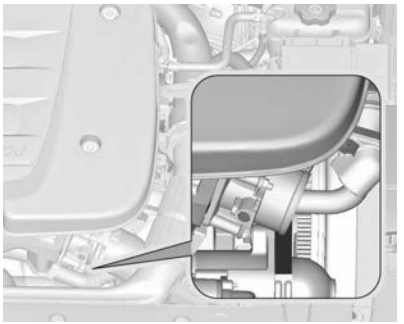
Engine serial number

Engine Z18XER



The engine serial number is located next to the oil filter.

Engine Z20DMH



The engine serial number is located under the centre branch of the exhaust manifold.

Vehicle data
Engine data

Sales designation	**1.8L**	**2.0L**
Engine identifier code	**Z18XER**	**Z20DMH**
Number of cylinders	4	4
Piston displacement [cm^3]	1796	1991
Engine power [kW] at rpm	Refer to holden.com.au	
Torque [Nm] at rpm	Refer to holden.com.au	
Fuel type	Petrol	Diesel
Octane rating RON		
Minimum	**91**	
Alternative (For slight improvement in engine performance)	95	

Vehicle weight

Additional weight

Maximum vehicle payloads

Vehicle	Occupants (Average 68 kg each)	Luggage (kg)	Total load (kg)
4 Door sedan	5	68	408

Maximum front and rear axle loads

Vehicle	Front axle loads (kg)	Rear axle loads (kg)
1.8 L Petrol	1060	1000
2.0 L Diesel	1140	1000

Vehicle dimensions

Length [mm]	4597
Width without exterior mirrors [mm]	1788
Width with two exterior mirrors [mm]	2067
Height (without antenna) [mm]	1477
Length of load compartment floor [mm]	1014
Load compartment width [mm]	1010

Load compartment height [mm]	512
Wheelbase [mm]	2685

Capacities

Engine oil

Engine	18XER	Z20DMH
including Filter [l]	4.5	6.2
between MIN and MAX [l]	1.0	1.34

Engine coolant

Engine	18XER	Z20DMH
capacity [l]	6.5	7.5

Fuel tank

Petrol/diesel, nominal capacity [l]	60

Customer information

Vehicle data recording and privacy 158

Vehicle data recording and privacy

Event data recorders

The vehicle has a number of sophisticated systems that monitor and control several vehicle data. Some data may be stored during regular operation to facilitate repair of detected malfunctions, other data is stored only in a crash or near crash event by systems commonly called event data recorders (EDR).

The systems may record data about the condition of the vehicle and how it was operated (e.g. engine speed, brake application, seat belt usage). To read this data special equipment and access to the vehicle is required. This will take place when the vehicle is serviced in a workshop. Some data is electronically fed into GM global diagnostic systems. The manufacturer will not access information about a crash event or share it with others except

- with the consent of the vehicle owner or, if the vehicle is leased, with the consent of the lessee,
- in response to an official request of police or similar government office,
- as part of the manufacturer's defense in case of legal proceedings,
- as required by law.

In addition, the manufacturer may use the collected or received data

- for the manufacturer's research needs,
- to provide to third parties for authorised research, on terms that protect confidentiality and the identity of the owner, of the vehicle,
- to share summary data which is not tied to a specific vehicle with other organisations for research purposes.

Index

A

Accessories and vehicle modifications 115
Activating the CD player..... 82
Adjustable air vents 90
Airbag and belt tensioners 53
Airbag system 33
Air conditioning regular operation 91
Air conditioning system 87
Air intake 91
Antilock brake system 100
Antilock brake system (ABS) 54
Armrest..... 28, 29
Armrest storage 43
Automatic Door Locks 19
Automatic light control 63
Automatic transmission 97
Autostore lists..... 78

B

Basic operation..... 74
Battery 122
Battery discharge protection 68
Bonnet 116
Boot 20
Brake and clutch system 54
Brake assist 101
Brake fluid 122
Brakes 100
Bulb replacement 123

C

Capacities 157
Catalytic converter 96
Central locking system 17
Charging system 53
Child locks 19
Child restraint installation locations 39
Child restraint systems 36
Climate control 12
Clock..... 48
Control elements overview..... 72
Control indicators..... 51
Control of the vehicle 93
Convex Mirrors 21
Cruise control 56, 103
Cupholders 42
Curtain airbag system 35

D

Danger, Warnings and Cautions ... 3
Diesel fuel system bleeding 123
Diesel particle filter..... 55, 95
Door Ajar Light 56
Driver Information Centre..... 57

E

Electronic driving programmes 98
Electronic Stability Control . . 54, 102
Electronic Stability Control off..... 55
Engine air filter..... 121
Engine compartment fuse box ... 130
Engine compartment overview... 118
Engine coolant 121
Engine data 155
Engine exhaust 95
Engine oil 120
Engine oil pressure 55
Engine Temperature gauge 51
Entry lighting 67
Event data recorders..... 158
Exit lighting 67
Exterior care 147
Exterior light 56
Exterior lighting 9

F

Fault 98
Favourite lists..... 79
Fixed air vents 91
Fog light 56
Fog lights 125
Folding Mirrors 22
Front airbag system 33
Front fog lights 65
Fuel for diesel engines 106
Fuel for petrol engines 106
Fuel gauge 50
Fuses 128

G

General information.....
..... 69, 81, 84, 85, 108
Glovebox 42
Graphic Information Display
(GID)..... 57

H

Halogen headlights 123
Hand brake..... 101
Hazard warning flashers 65
Headlight flash 64
Headlight range adjustment 64
Head restraint adjustment 6
Head restraints 25
Heated Front Seats 28
Heated Mirrors 22
Heated rear window 24
High beam 56, 64
Horn 11, 47

I

Identification plate 153
Ignition switch positions 94
Immobiliser 21, 56
Instrument panel fuse box 132
Instrument panel illumination 128
Instrument panel illumination
control 66
Instrument panel overview 9
Instrument panel storage..... 41
Interior care 148
Interior lights 66, 127
Interruption of power supply 99
Introduction 3

J

Jump starting 143

K

Keys 16

L

Light switch 63
Load compartment 43
Loading information 44
Low fuel 56

M

Malfunction Indicator Lamp 54
Manual mode 98
Manual Rearview Mirror 22
Manual transmission 100
Mirror adjustment 7

Misted light covers 66
Mute..... 73

N
New vehicle running-In 93
Number plate light 127

O
Odometer 50
Outside temperature 48
Overrun cut-off 94

P
Parking 15, 94
Parking assist 105
Parking brake 101
Performing work 116
Playing saved audio files..... 86
Pollen filter 91
Power Mirrors 21
Power outlets 49
Power steering fluid..... 122
Power windows 23
Preheating 55

R
Radio remote control 16
Reading lights 67
Recommended fluids and lubricants 150
Refuelling 107
Retrieving stations..... 78, 79
Reversing lights 65
Roof rack 44

S
Seat adjustment 4, 27
Seat belt 6
Seat belt reminder 53
Seat belts 29
Seat position 26
Selector lever 97
Service 91, 149
Service information 149
Service vehicle soon 54
Setting the volume..... 73
Side airbag system 34
Side turn signal lights 127
Spare wheel 142
Speed-compensated volume..... 73
Speedometer 49
Starting CD replay..... 82
Starting off 14
Starting the engine 94
Station search..... 78
Steering wheel adjustment 7, 46
Steering wheel controls 46
Storing stations..... 78, 79
Sunglasses storage 42
Sun visors 24
Supported USB devices..... 85
Switching the Infotainment system on or off..... 73
Symbols 3

T
Tachometer 50
Tail lights 125
Theft-deterrent feature 70
Three-point seat belt 31
Tone settings..... 75
Tools 133
Top-tether child restraint systems 40
Towing another vehicle 146
Towing the vehicle 145
Traction control system 102
Traction Control system off..... 55
Trailer towing 109
Transmission 13
Transmission display 97
Tread depth 135
Trip computer 59
Trip odometer 50
Turn and lane-change signals 65
Turn signal 53
Tyre chains 136
Tyre pressure 134
Tyre repair kit 136

U

Ultrasonic parking assist 54
Updating station lists..... 80
Usage..... 73, 78, 82, 85
Using the CD player..... 82
Using the Infotainment system..... 73
Using this manual 3

V

Vehicle dimensions 156
Vehicle Identification Number 152
Vehicle messages 58
Vehicle personalisation 60
Vehicle storage..... 115
Vehicle unlocking 4
Vehicle weight 156
Volume settings..... 77

W

Warning chimes 59
Washer and wiper systems 11
Washer fluid 122
Waveband menus..... 80
Wheel changing 139
Wheel covers 135
Wheels and tyres 134
Windscreen wiper/washer 47
Wiper blade replacement 123